PROJECT ID: WITH: **1360-13-70**

COUNTY: **MILWAUKEE**

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS =

N

DESIGN DESIGNATION 76TH ST. (STH 181)

A.A.D.T.	2022	=	28,800
A.A.D.T.	2042	=	31,600
D.H.V.		=	-
D.D.		=	-
T.		=	-
DESIGN SPEED		=	40 MPH
ESALS		=	-

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1360-13-70		

DRAFT PS&E

FOND DU LAC, CITY OF MILWAUKEE

76TH, PED BRIDGES

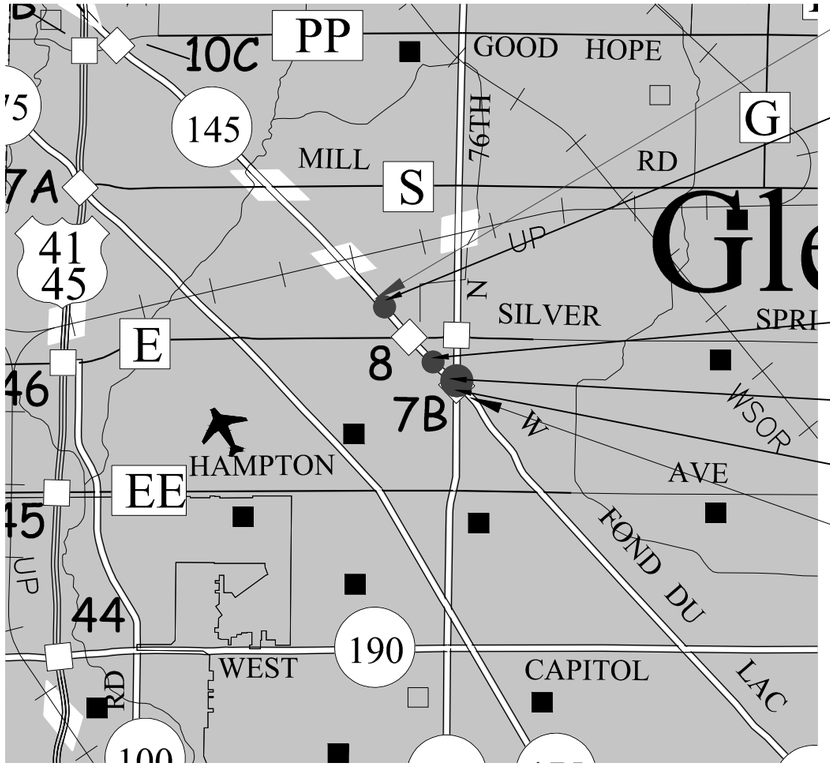
STH 145

MILWAUKEE COUNTY

STATE PROJECT NUMBER
1360-13-70

R-21-E

T-8-N



BEGIN PROJECT
STA 143+89.65
X: 577,607.623
Y: 330,241.646

STRUCTURE B-40-297 (84th ST. PED. BRIDGE)
NW OF SILVER SPRING DR. ON 84TH ST.

STRUCTURE B-40-298 (SHERIDAN AVE. PED. BRIDGE)
SW OF SILVER SPRING DR. ON W. SHERIDAN AVE.

STRUCTURE B-40-255 (SB 76TH ST.)
STA 50+58 - STA 53+47

STRUCTURE B-40-256 (NB 76TH ST.)
STA 50+10 - STA 53+30

END PROJECT
STA 182+48.01

LAYOUT

SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.731 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MILWAUKEE COUNTY NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

benesch

Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

DATE: _____ _____ (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	GRAEF
Designer	BENESCH
Project Manager	VIDA SHAFFER
Regional Examiner	
Regional Supervisor	REEM SHAHIN

APPROVED FOR THE DEPARTMENT

DATE: _____ _____ (Signature)

E

GENERAL NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WIHTIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
2. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPALITY OR PUBLIC AGENCY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
3. ALL ELEVATIONS AND OFFSETS SHOWN IN THE PLAN SHALL BE VERIFIED IN THE FIELD.
4. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
5. THE COST OF GRADING, CONSTRUCTING, MAINTAINING, AND REMOVING TEMPORARY ACCESS IS INCIDENTAL TO THE CONTRACT.
6. HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY-IN
7. THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING OR TURNING LANE.

EROSION CONTROL GENERAL NOTES

1. RE-TOPSOIL DISTURBED AREAS, AS DESIGNATED BY THE ENGINEER. SEED AND E-MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.
2. STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED.
3. QUANTITIES FOR EROSION CONTROL ITEMS HAVE BEEN INCLUDED IN THE PROJECT, BUT MAY NOT BE REPRESENTED ON THE PLAN. THE LOCATIONS AND TYPE OF EROSION CONTROL ITEMS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE ITEMS IS NO LONGER REQUIRED.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANCE (PERCENT)			SLOPE RANCE (PERCENT)			SLOPE RANCE (PERCENT)			SLOPE RANCE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	0.08 0.22	0.16 0.30	0.22 0.38	0.12 0.26	0.20 0.34	0.27 0.44	0.15 0.30	0.24 0.37	0.33 0.50	0.19 0.34	0.28 0.41	0.38 0.56
MEDIAN STRIP TURF	0.19 0.24	0.20 0.26	0.24 0.30	0.19 0.25	0.22 0.28	0.26 0.33	0.20 0.26	0.23 0.30	0.30 0.37	0.20 0.27	0.25 0.32	0.30 0.40
SIDE SLOPE TURF	0.25 0.34	0.27 0.36	0.25 0.32	0.30		0.27 0.34			0.28 0.36			0.30 0.38
PAVEMENT:												
ASPHALT	0.70 - 0.95											
CONCRETE	0.80 - 0.95											
BRICK	0.70 -0.80											
DRIVES, WALKS	0.75 - 0.85											
ROOFS	0.75 - 0.95											
GRAVEL ROADS, SHOULDERS	0.40 - 0.60											

TOTAL PROJECT AREA = 1.70 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.55 ACRES

DIGGERS HOTLINE

Dial 811 or (800)242-8511

www.DiggersHotline.com

WISDOT CONTACT

Southeast Region
Vida Shaffer
141 NW BARSTOW ST
WAUKESHA, WI 53188
PHONE: (414) 333-9116
EMAIL: VIDA.SHAFFER@dot.wi.gov

DESIGN CONTACT

Alfred Benesch & Co
Bill Zippel
1300 W Canal St, Suite 150
Milwaukee, WI 53233
PHONE: (414) 308-1310
wzippel@benesch.com

DNR CONTACT

DNR - Southeast Region
Kristina Betzold
2300 N Martin Luther King Jr Dr
Milwaukee, WI 53212
PHONE: (414) 507-4946
EMAIL: kristina.betzold@wisconsin.gov

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
CURB RAMP DETAILS
JOINT DETAILS
EROSION CONTROL PLAN
CITY UNDERGROUND CONDUIT
PERMANENT SIGNING
STREET LIGHTING
TEMPORARY TRAFFIC SIGNAL PLAN
TRAFFIC SIGNAL INTERCONNECT
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT PLAN

UTILITIES

COMMUNICATIONS

AT&T LOCAL NETWORK
TIMOTHY LAPOINTE
1301 FANNIN STREET
HOUSTON, TX 77002
PHONE: (281) 352-3631
EMAIL: tl0695@ATT.COM

COMMUNICATIONS

AT&T WISCONSIN
JAY BULANEK
2005 PEWAUKEE RD
WAUKESHA, WI 53188-2443
PHONE: (262) 896-7669
EMAIL: JB5175@ATT.COM

COMMUNICATIONS

CITY OF MILWAUKEE - COMMUNICATIONS
COMMUNICATIONS DISPATCH
1440 WEST CANAL STREET
MILWAUKEE, WI 53202
PHONE: (414) 286-3686

UNDERGROUND CONDUIT

CITY OF MILWAUKEE - UNDERGROUND CONDUIT
HAZAM RAMADAN
841 N BROADWAY, ROOM 920
MILWAUKEE, WI 53202
PHONE: (414) 286-3242
EMAIL: HRAMAD@MILWAUKEE.GOV

ELECTRICITY

CITY OF MILWAUKEE - STREET LIGHTING
ENG-KIE LEE
841 N BROADWAY
MILWAUKEE, WI 53202
PHONE: (414) 286-2174
EMAIL: ELEE@MILWAUKEE.GOV

SEWER

CITY OF MILWAUKEE - SEWER
ZAFAR YOUSUF
841 N BROADWAY
MILWAUKEE, WI 53202
PHONE:
EMAIL: ZYOUSU@MILWAUKEE.GOV

WATER

CITY OF MILWAUKEE - MILWAUKEE WATER WORKS
DAVE GOLDAPP
841 N BROADWAY, ROOM 40
MILWAUKEE, WI 53202
PHONE: (414) 286-6301
EMAIL: DAVE.GOLDAPP@MILWAUKEE.GOV

COMMUNICATIONS

EVERSTREAM
SHAD GARCIA
324 E Wisconsin Ave, Suite 730
Milwaukee, WI 53202
PHONE: (414) 522-6685
EMAIL: SGARCIA@EVERSTREAM.NET

SEWER

MILWAUKEE METRO SEWERAGE DISTRICT
JAMES ROMANOWSKI
260 W SEEBOTH STREET
MILWAUKEE, WI 53204
PHONE: (414) 225-2241
EMAIL: JROMANOWSKI@MMSD.CO

COMMUNICATIONS

PAETEC COMMUNICATIONS
ERIC BECKER
314 N DANZ AVE
GREEN BAY, WI 54302-3526
PHONE: (920) 461-9825
EMAIL: ERICBECKER@WINDSTREAM.COM

COMMUNICATIONS

SPECTRUM
BEAU ABUYA
1320 N DR MARTIN LUTHER KIND JR DR
MILWAUKEE, WI 53212
PHONE: (414) 758-9241
EMAIL: BEAU.ABUYA@CHARTER.COM

COMMUNICATIONS

VERIZON BUSINESS
RJ Cicatello Jr.
15725 W RYERSON RD
New Berlin, WI 53151
PHONE: (262) 232-1323
EMAIL: randy.cicatello@verizon.com

ELECTRICITY

WE ENERGIES - ELECTRICITY
TODD WIEDOFF
W 140 N9100 LILLY RD
MENOMONEE FALLS, WI 53051
PHONE: (262) 502-6818
EMAIL: TODD.WIEDOFF@WE-ENERGIES.COM

GAS/PETROLEUM

WE ENERGIES - GAS
JACOB HULBERT
500 S 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5575
WE-UTILITY-RELOCATIONS@WE-ENERGIES.COM

ELECTRICITY

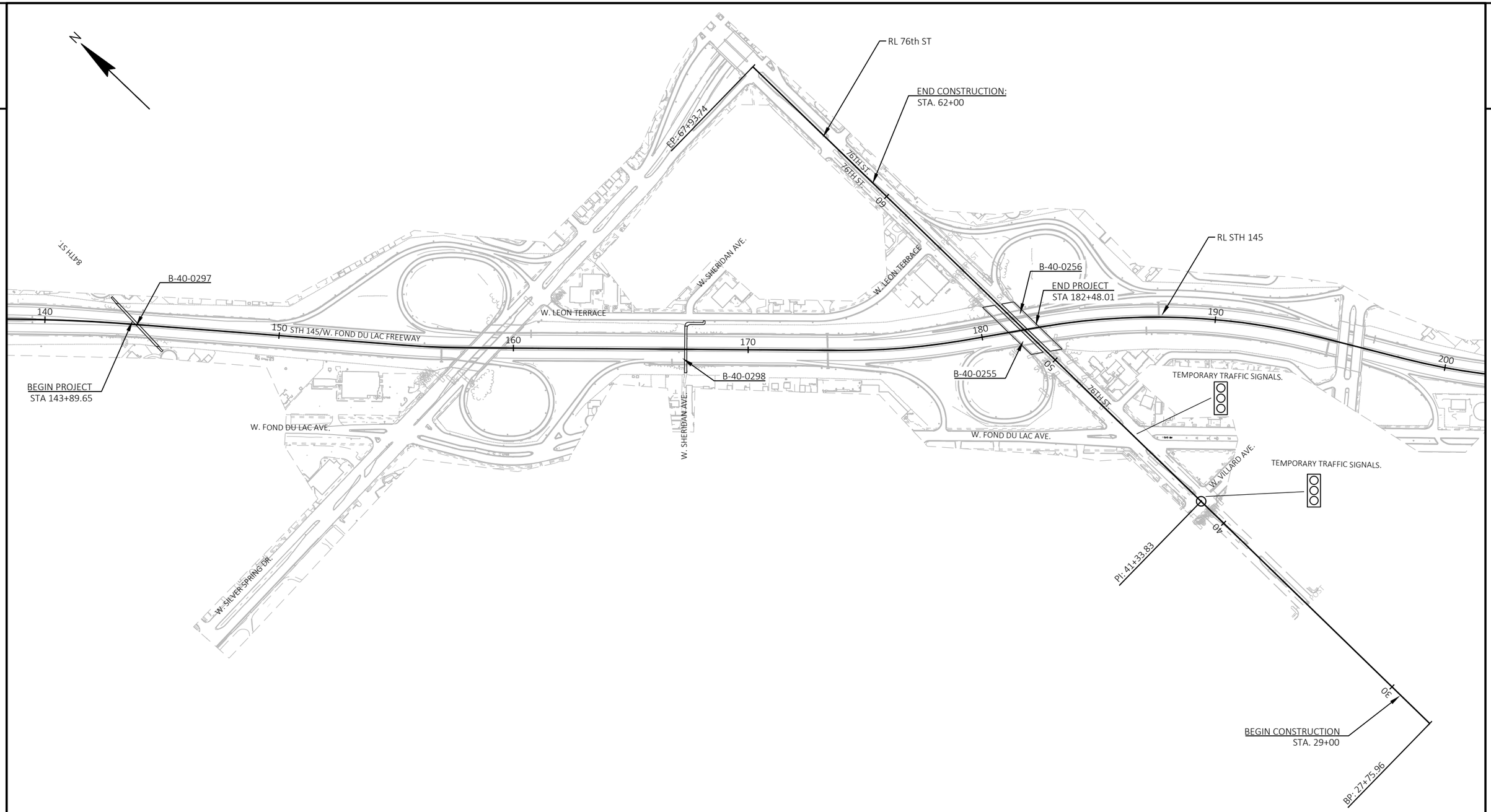
WISDOT - STREET LIGHTING
ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (262) 574-5422
ERICPEREA@DOT.WI.GOV

ELECTRICITY

WISDOT - SIGNAL OPERATIONS
WISDOT ELECTRICAL FIELD UNIT
141 NW BARSTOW STREET
WAUKESHA, WI 53188
PHONE: (414) 750-2605

LIST OF STANDARD ABBREVIATIONS

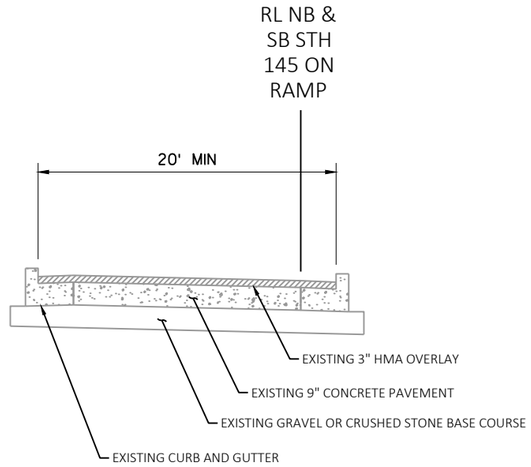
ABUT	ABUTMENT	HYD	HYDRANT	RD	ROAD
AC	ACRE	IN DIA	INCH DIAMETER	RDWY	ROADWAY
AGG	AGGREGATE	INL	INLET	SALV	SALVAGED
AADT	ANNUAL AVERAGE DAILY TRAFFIC	ID	INSIDE DIAMETER	SSS	SANITARY AND STORM SEWER
ASPH	ASPHALT	INV	INVERT	SAN S	SANITARY SEWER
AVG	AVERAGE	IP	IRON PIPE	SEC	SECTION
ADT	AVERAGE DAILY TRAFFIC	JT	JOINT	SHLDR	SHOULDER
BF	BACK FACE	JCT	JUNCTION	SW	SIDEWALK
BL	BASE LINE	LT	LEFT	S	SOUTH
BM	BENCH MARK	L	LENGTH OF CURVE	SB	SOUTHBOUND
CB	CATCH BASIN	LHF	LEFT-HAND FORWARD	SP	SPECIAL
C/L	CENTERLINE	LF	LINEAR FOOT	SPECS	SPECIFICATIONS
CC	CENTER TO CENTER	L	LITER	SQ	SQUARE
CE	COMMERCIAL ENTRANCE	LS	LUMP SUM	SF	SQUARE FEET
CONC	CONCRETE	MH	MANHOLE	SY	SQUARE YARD
CO	COUNTY	MB	MESSAGE BOARD	STD	STANDARD
CTH	COUNTY TRUNK HIGHWAY	MLB	MAILBOX	SDD	STANDARD DETAIL DRAWINGS
CY	CUBIC YARD	ML	MATCH LINE	STH	STATE TRUNK HIGHWAYS
CULV	CULVERT	NC	NORMAL CROWN	STA	STATION
C&G	CURB AND GUTTER	N	NORTH	SS	STORM SEWER
DHV	DESIGN HOUR VOLUME	Y	NORTH GRID COORDINATE	STR	STRUCTURE OR STRUCTURAL
DIA	DIAMETER	NB	NORTHBOUND	SL	SURVEY LINE
DD	DIRECTIONAL DISTRIBUTION	NO	NUMBER	TEL	TELEPHONE
E	EAST	OD	OUTSIDE DIAMETER	TEMP	TEMPORARY
X	EAST GRID COORDINATE	PAVT	PAVEMENT	TLE	TEMPORARY LIMITED EASEMENT
EB	EASTBOUND	PERM	PERMANENT	T	TON
ELEC	ELECTRIC	PLE	PERMANENT LIMITED EASEMENT	TC	TOP OF CURB
ELEV	ELEVATION	PT	POINT	T	TRUCKS (PERCENT OF)
ESALS	EQUIVALENT SINGLE AXLE LOADS	PVC	POLYVINYL CHLORIDE	TYP	TYPICAL
EXC	EXCAVATION	PCC	PORTLAND CEMENT CONCRETE	UG	UNDERGROUND
EBS	EXCAVATION BELOW SUBGRADE	PE	PRIVATE ENTRANCE	USH	UNITED STATES HIGHWAY
EXIST	EXISTING	PROJ	PROJECT	VAR	VARIABLE
FF	FACE TO FACE	PL	PROPERTY LINE	VERT	VERTICAL
FE	FIELD ENTRANCE	R	RADIUS	W	WATER
FG	FINISHED GRADE	R/L	REFERENCE LINE	WM	WATER MAIN
FL	FLOW LINE	RCCP	REINFORCED CONCRETE CULVERT PIPE	WV	WATER VALVE
FT	FOOT	REQD	REQUIRED	W	WEST
FTMS	FREEWAY TRAFFIC MANAGEMENT SYSTEM	RT	RIGHT	WB	WESTBOUND
HES	HIGH EARLY STRENGTH	RHF	RIGHT HAND FORWARD	YD	YARD
CWT	HUNDREDWEIGHT	R/W	RIGHT-OF-WAY		



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 3	E

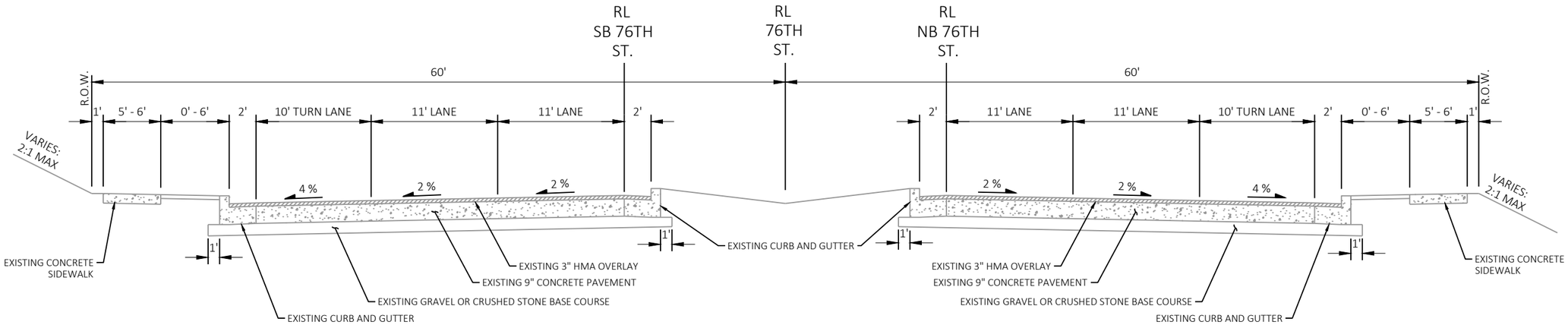
FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\020201_PO.DWG
LAYOUT NAME - 01
PLOT DATE : 4/6/2022 9:11 AM
PLOT BY : PAYNE, GREGORY
PLOT NAME :
PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 42

2



76TH ST. RAMP EXISTING TYPICAL SECTION

STA 1+44.06 - 2+78.53 NB
STA 1+82.09 - 2+86.77 SB

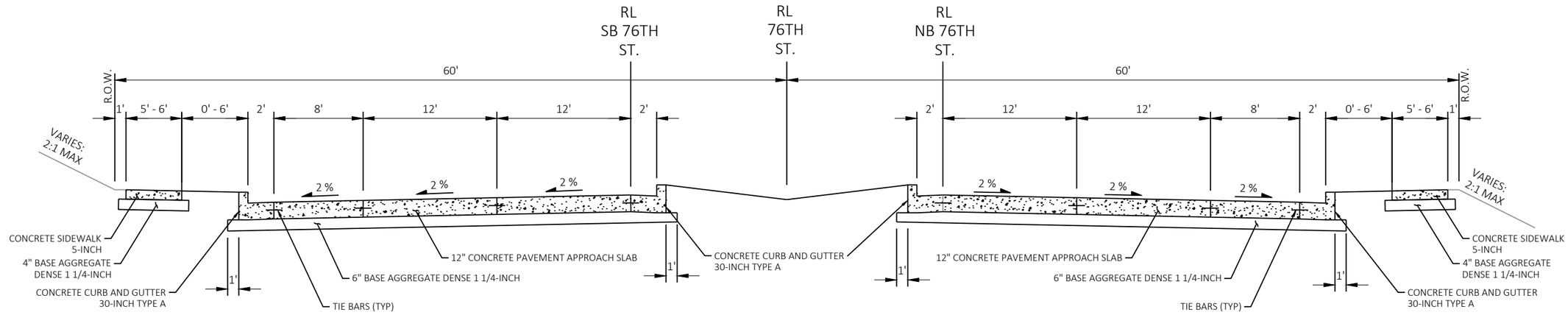


76TH STREET EXISTING TYPICAL SECTION

STA 48+50.00 - 55+00.00

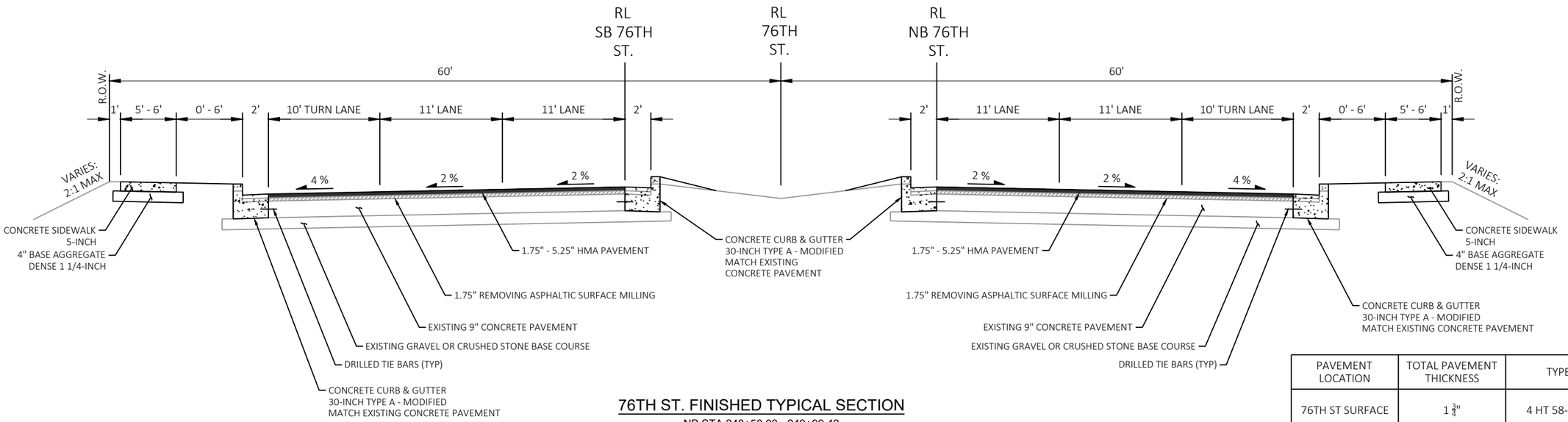
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 4	E

2



76TH ST. FINISHED TYPICAL SECTION

NB STA 249+99.42 - DECK
SB STA 150+43.17 - DECK
NB STA DECK - 253+44.10
SB STA DECK - 153+87.86

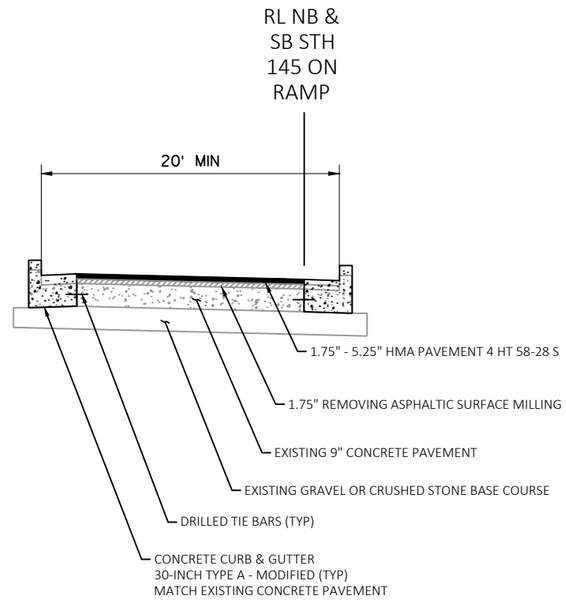


76TH ST. FINISHED TYPICAL SECTION

NB STA 248+50.00 - 249+99.42
SB STA 149+50.00 - 150+43.17
NB STA 253+44.10 - 254+78.53
SB STA 153+87.86 - 155+00.00

PAVEMENT LOCATION	TOTAL PAVEMENT THICKNESS	TYPE
76TH ST SURFACE	1 $\frac{3}{4}$"	4 HT 58-28 H
76TH ST WEDGE	1 $\frac{3}{4}$" - 3"	4 HT 58-28 H
76TH ST LOWER WEDGE	1 $\frac{3}{4}$"	4 HT 58-28 H

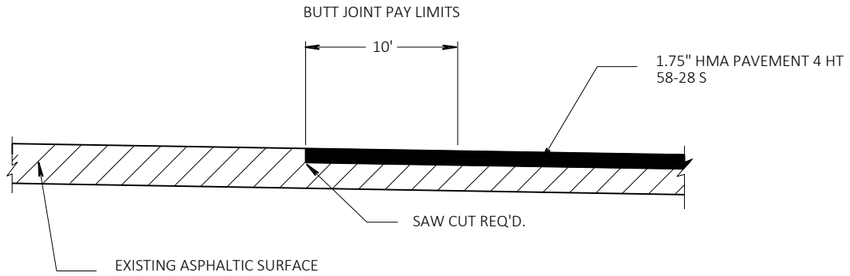
2



76TH ST. RAMP FINISHED TYPICAL SECTION

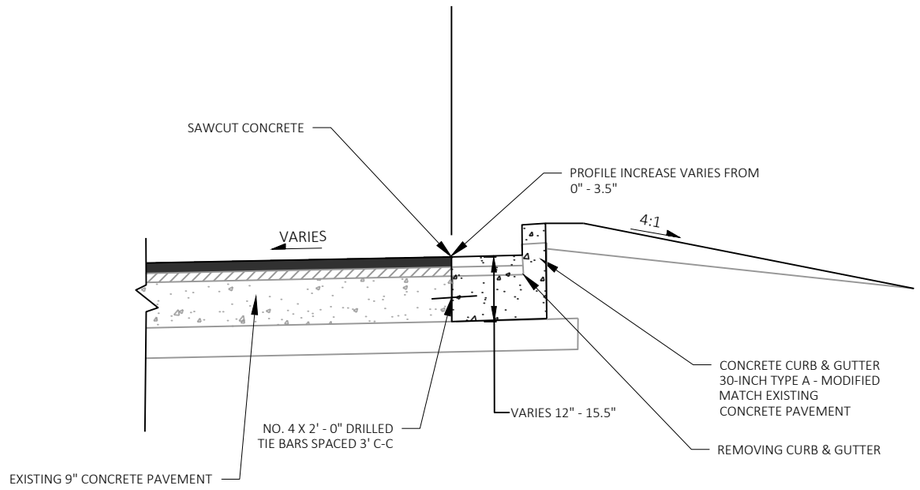
STA 1+44.06 - 2+78.53 NB
STA 1+82.09 - 2+86.77 SB

PAVEMENT LOCATION	TOTAL PAVEMENT THICKNESS	LAYER	TYPE
RAMP OVERLAY	1.75" - 3"	1.75" UPPER 0-1.25" LOWER	4 HT 58-28 H HT 58-28 H

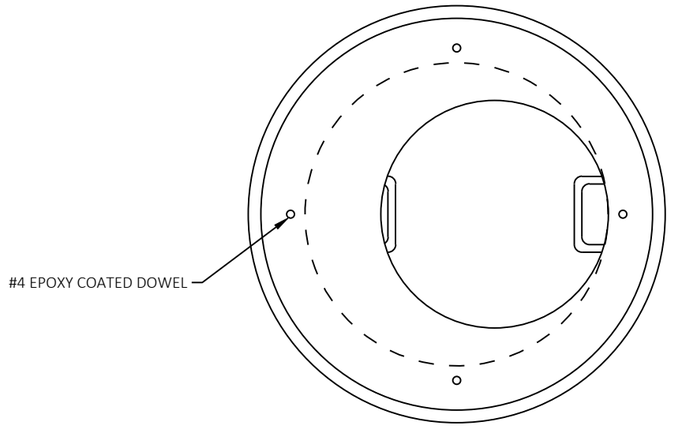


DETAIL OF BUTTED JOINT
NOTE: EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

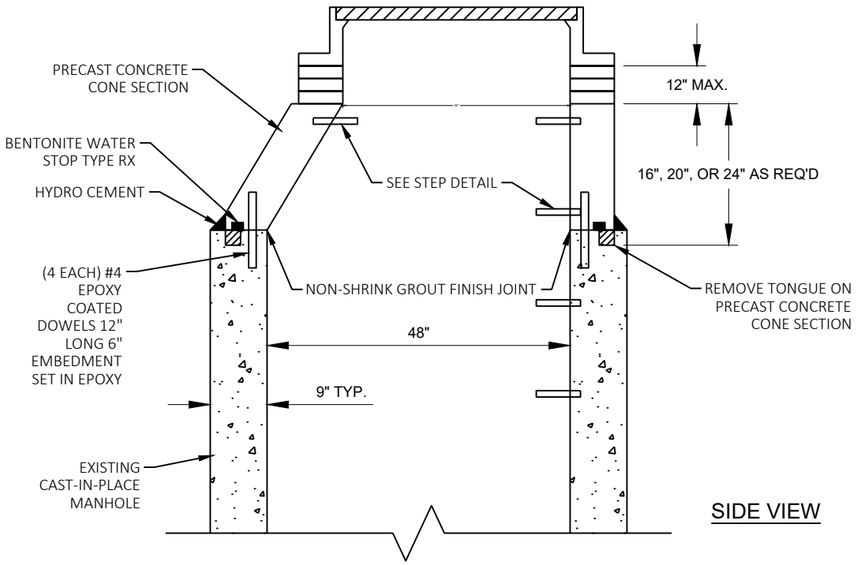
RL



CURB REPLACEMENT DETAIL

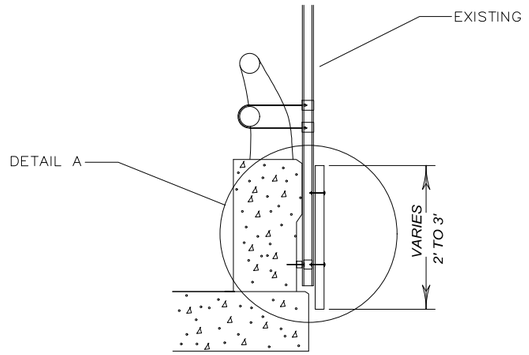


TOP VIEW

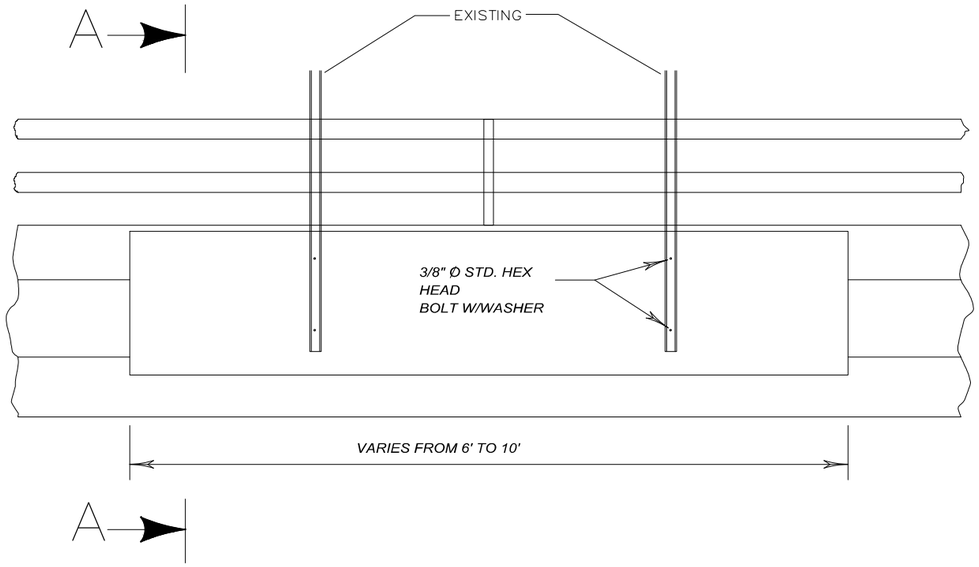


SIDE VIEW

MMSD MANHOLE RECONSTRUCT
WITH PRECAST CONCRETE CONE



SECTION A–A
SIDE VIEW

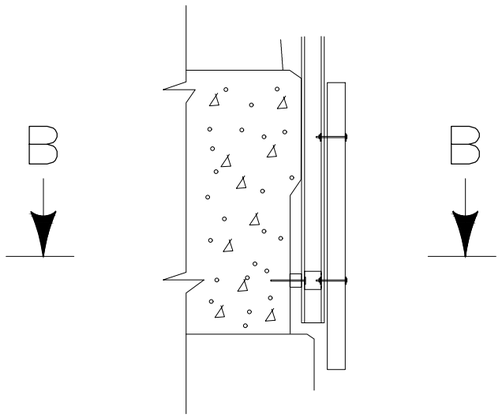


FRONT VIEW

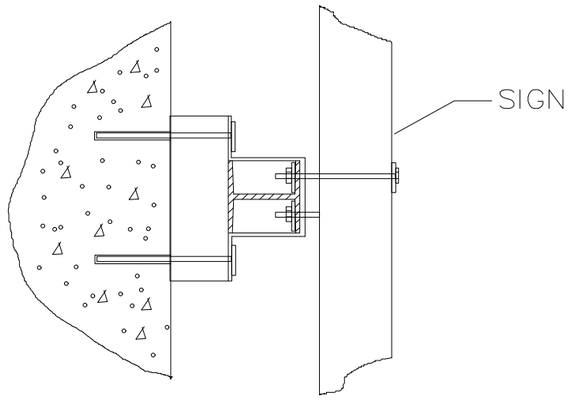
NOTES:

PROVIDE NEW BOLTS.

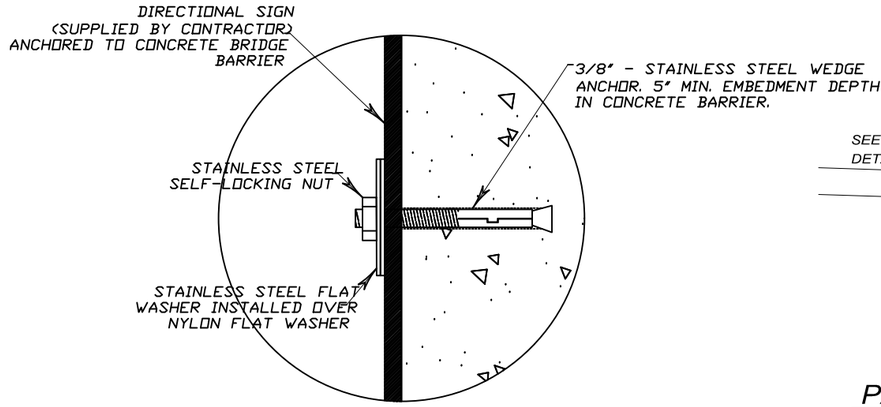
MOUNTING DETAIL COSTS ARE INCIDENTAL TO PAY ITEM "TYPE II SIGNS, REFLECTIVE".



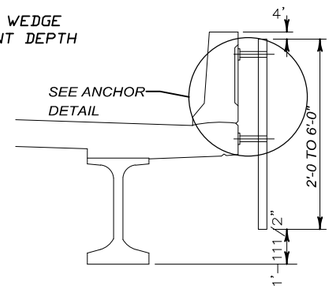
DETAIL A



SECTION B–B
TOP VIEW



ANCHOR DETAIL
N.T.S.



PARAPET OPTION
WITHOUT RAIL

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	SIGN MOUNTING DETAIL ON BRIDGE	SHEET 8	E

2

N

REMOVING FENCE AND INSTALL FENCE CHAIN LINK 6-FT TO END OF PARAPET

CONCRETE CURB & GUTTER 30-INCH TYPE A

CONCRETE SIDEWALK 5-INCH

ADJUSTING MMSD MANHOLE COVER

ADJUSTING CUC MANHOLE COVER

CONCRETE PAVEMENT APPROACH SLAB

CITY OF MILWAUKEE LIGHTING

WE ENERGIES ELECTRIC

REMOVING FENCE INSTALL FENCE CHAIN LINK 6-FT STA. 2+86.00 29' LT

WE ENERGIES MANHOLE COVER ADJUTMENT BY OTHERS

BEGIN CONSTRUCTION STA 49+50 MATCH EXISTING ASPHALTIC BUTT JOINT

76th ST. SB

CONCRETE CURB & GUTTER 30-INCH TYPE A

4+00

3+00

2+00

1+00

10+00

179+00

PT: 179+12.67

180+00

181+00

182+00

B-40-0255
(SEE STRUCTURE PLANS)

12+00

53+00

54+00

55+00

49+00

50+00

51+00

52+00

REMOVING FENCE AND INSTALL FENCE CHAIN LINK 6-FT FROM 53+98.44 67' LT TO END OF PARAPET

WE ENERGIES MANHOLE COVER ADJUTMENT BY OTHERS

CONCRETE SIDEWALK 5-INCH

ADJUSTING MANHOLE COVER

CONCRETE CURB & GUTTER 30-INCH TYPE A

ADJUSTING MMSD MANHOLE COVER

CITY OF MILWAUKEE LIGHTING

WE ENERGIES GAS

CONCRETE PAVEMENT APPROACH SLAB

RECONSTRUCTING MMSD MANHOLE

MMSD

END CONSTRUCTION STA 55+00 MATCH EXISTING ASPHALTIC BUTT JOINT

AT&T

R/I 76TH ST

76th ST. NB

ADJUSTING MANHOLE COVER

REMOVING FENCE AND INSTALL FENCE CHAIN LINK 6-FT

ADJUSTING ATT MANHOLE COVER

END CONSTRUCTION STA 54+78.53 MATCH EXISTING ASPHALTIC BUTT JOINT

CONCRETE CURB & GUTTER 30-INCH TYPE A

CITY OF MILWAUKEE WATER

WE ENERGIES ELECTRIC

BEGIN CONSTRUCTION STA 48+50 MATCH EXISTING ASPHALTIC BUTT JOINT

ADJUSTING WATER VALVES

ADJUSTING INLET COVER

CONCRETE SIDEWALK 5-INCH

CITY OF MILWAUKEE LIGHTING

CONCRETE PAVEMENT APPROACH SLAB

WE ENERGIES GAS

REMOVING FENCE

INSTALL FENCE CHAIN LINK 6-FT FROM STA. 49+89.14 75' RT TO END OF PARAPET

WISDOT LIGHTING

182+00

183+00

PC: 182+58.43

184+00

10+00

11+00

B-40-0256
(SEE STRUCTURE PLANS)

REMOVING FENCE AND INSTALL FENCE CHAIN LINK 6-FT

CONCRETE PAVEMENT APPROACH SLAB

ADJUSTING WATER VALVES

CONCRETE SIDEWALK 5-INCH

REMOVING FENCE AND INSTALL FENCE CHAIN LINK 6-FT TO END OF PARAPET

WISDOT LIGHTING

2+00

3+00

4+00

LEGEND

CONCRETE PAVEMENT APPROACH SLAB

HMA PAVEMENT

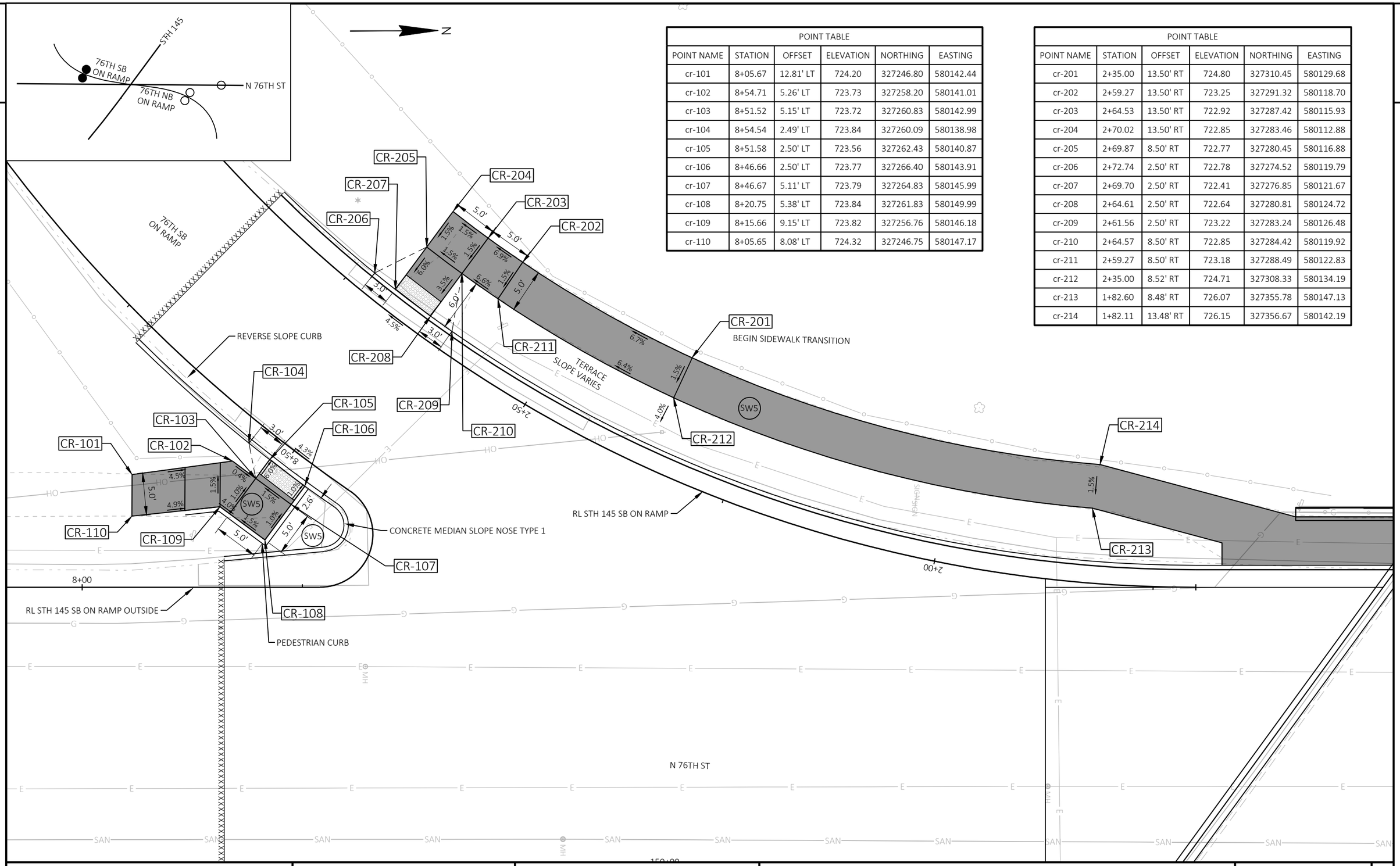
CONCRETE SIDEWALK 5-INCH

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 9	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\021201_PD.DWG
LAYOUT NAME - 01

PLOT DATE : 4/27/2022 7:49 AM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42



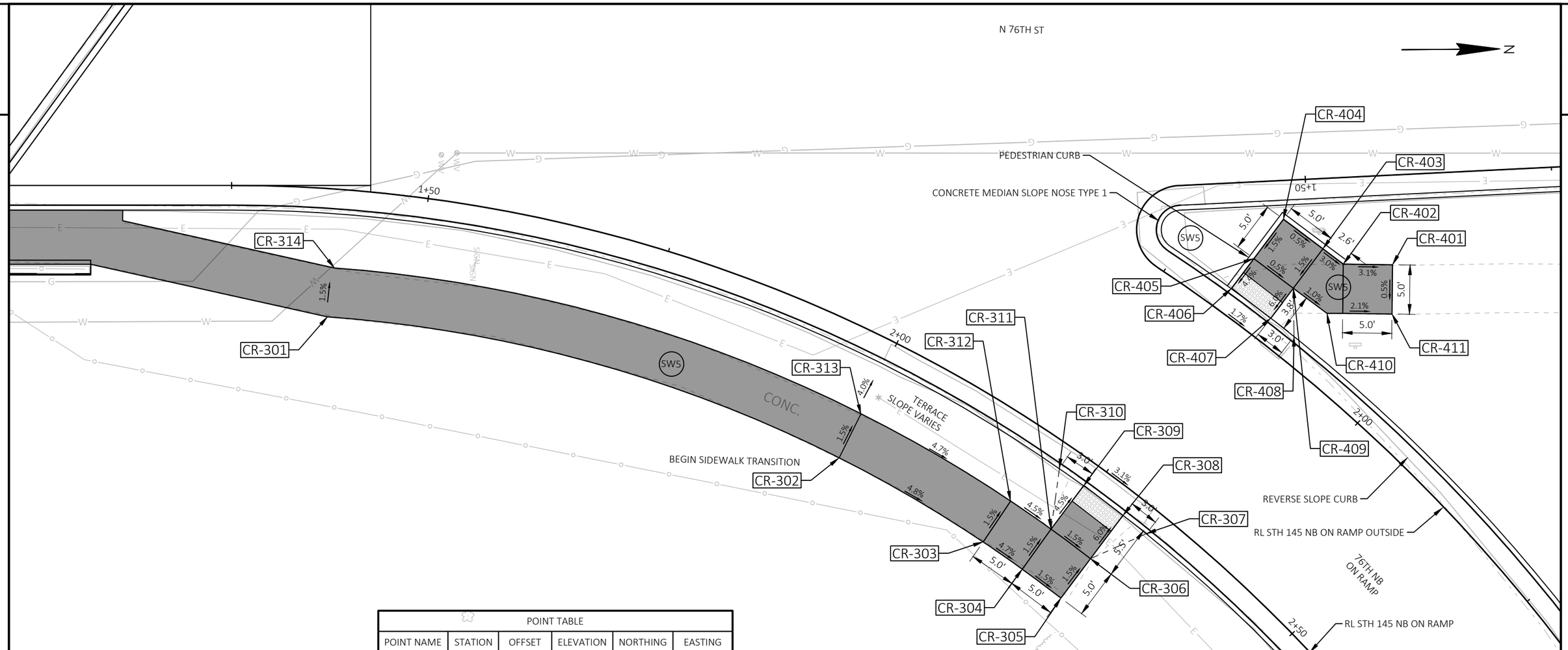
POINT TABLE					
POINT NAME	STATION	OFFSET	ELEVATION	NORTHING	EASTING
cr-101	8+05.67	12.81' LT	724.20	327246.80	580142.44
cr-102	8+54.71	5.26' LT	723.73	327258.20	580141.01
cr-103	8+51.52	5.15' LT	723.72	327260.83	580142.99
cr-104	8+54.54	2.49' LT	723.84	327260.09	580138.98
cr-105	8+51.58	2.50' LT	723.56	327262.43	580140.87
cr-106	8+46.66	2.50' LT	723.77	327266.40	580143.91
cr-107	8+46.67	5.11' LT	723.79	327264.83	580145.99
cr-108	8+20.75	5.38' LT	723.84	327261.83	580149.99
cr-109	8+15.66	9.15' LT	723.82	327256.76	580146.18
cr-110	8+05.65	8.08' LT	724.32	327246.75	580147.17

POINT TABLE					
POINT NAME	STATION	OFFSET	ELEVATION	NORTHING	EASTING
cr-201	2+35.00	13.50' RT	724.80	327310.45	580129.68
cr-202	2+59.27	13.50' RT	723.25	327291.32	580118.70
cr-203	2+64.53	13.50' RT	722.92	327287.42	580115.93
cr-204	2+70.02	13.50' RT	722.85	327283.46	580112.88
cr-205	2+69.87	8.50' RT	722.77	327280.45	580116.88
cr-206	2+72.74	2.50' RT	722.78	327274.52	580119.79
cr-207	2+69.70	2.50' RT	722.41	327276.85	580121.67
cr-208	2+64.61	2.50' RT	722.64	327280.81	580124.72
cr-209	2+61.56	2.50' RT	723.22	327283.24	580126.48
cr-210	2+64.57	8.50' RT	722.85	327284.42	580119.92
cr-211	2+59.27	8.50' RT	723.18	327288.49	580122.83
cr-212	2+35.00	8.52' RT	724.71	327308.33	580134.19
cr-213	1+82.60	8.48' RT	726.07	327355.78	580147.13
cr-214	1+82.11	13.48' RT	726.15	327356.67	580142.19

2

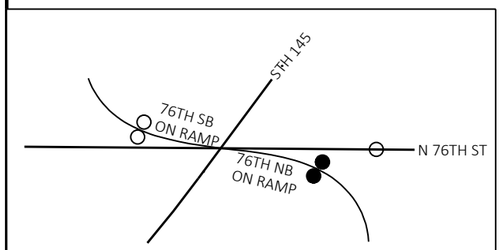
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 10	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\023101_CR.DWG
LAYOUT NAME - 01
PLOT DATE : 4/27/2022 7:52 AM
PLOT BY : WEIGAND, BEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



POINT TABLE					
POINT NAME	STATION	OFFSET	ELEVATION	NORTHING	EASTING
cr-301	1+40.64	13.00' RT	727.57	327646.08	580263.70
cr-302	1+99.99	13.04' RT	726.89	327697.87	580278.44
cr-303	2+18.54	13.00' RT	727.57	327712.44	580287.06
cr-304	2+23.82	13.00' RT	725.84	327716.39	580289.85
cr-305	2+29.20	13.00' RT	725.77	327720.30	580292.82
cr-306	2+29.11	8.00' RT	725.69	327723.33	580288.85
cr-307	2+32.06	2.50' RT	725.77	327728.99	580286.35
cr-308	2+29.03	2.52' RT	725.37	327726.65	580284.49
cr-309	2+23.94	2.50' RT	725.52	327722.69	580281.45
cr-310	2+20.87	2.50' RT	726.11	327720.24	580279.69
cr-311	2+23.82	8.00' RT	725.77	327719.34	580285.81
cr-312	2+18.54	8.00' RT	725.99	327715.26	580282.93
cr-313	1+99.99	8.08' RT	726.82	327700.14	580274.03
cr-314	1+41.03	8.00' RT	727.50	327646.84	580258.75

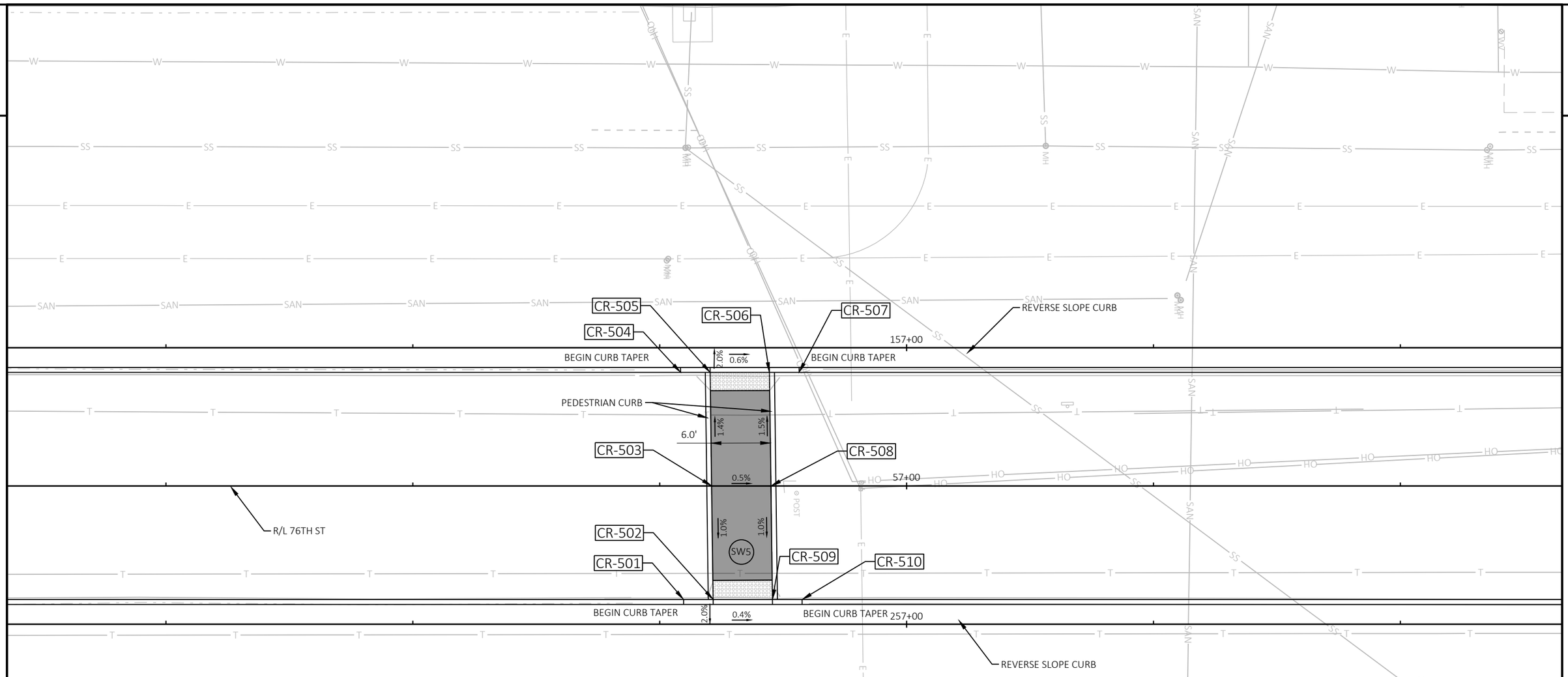
POINT TABLE					
POINT NAME	STATION	OFFSET	ELEVATION	NORTHING	EASTING
cr-401	1+41.57	9.10' LT	726.72	327754.21	580259.25
cr-402	1+46.57	8.79' LT	726.87	327749.21	580259.15
cr-403	1+48.56	7.13' LT	726.95	327747.15	580257.57
cr-404	1+52.41	3.93' LT	727.30	327743.17	580254.53
cr-405	1+81.63	6.31' LT	727.20	327740.13	580258.52
cr-406	1+81.58	2.50' LT	726.76	327737.83	580261.55
cr-407	1+86.51	2.50' LT	726.65	327741.81	580264.58
cr-408	1+89.47	2.50' LT	727.09	327744.16	580266.45
cr-409	1+86.46	6.31' LT	726.88	327744.12	580261.55
cr-410	1+90.57	6.42' LT	726.83	327747.51	580264.14
cr-411	1+95.43	10.60' LT	726.69	327754.11	580264.25



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 11	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\023101_CR.DWG
LAYOUT NAME - 02
PLOT DATE : 4/27/2022 7:52 AM
PLOT BY : WEIGAND, BEN
PLOT NAME :
PLOT SCALE : 1 IN:10 FT

2



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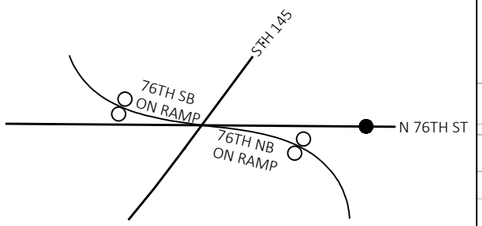


POINT TABLE					
POINT NAME	STATION	OFFSET	ELEVATION	NORTHING	EASTING
cr-501	56+77.41	11.50' RT	726.81	327984.15	580218.48
cr-502	56+80.41	11.50' RT	726.30	327987.15	580218.50
cr-503	56+80.27	0.00'	726.42	327987.09	580207.00
cr-504	56+77.12	11.50' LT	726.79	327984.03	580195.48
cr-505	56+80.11	11.50' LT	726.26	327987.02	580195.50
cr-506	56+86.11	11.50' LT	726.22	327993.02	580195.55
cr-507	56+89.12	11.50' LT	726.71	327996.03	580195.57
cr-508	56+86.27	0.00'	726.39	327993.09	580207.05
cr-509	56+86.41	11.50' RT	726.27	327993.15	580218.55
cr-510	56+89.41	11.50' RT	726.76	327996.15	580218.57

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CURB RAMP DETAILS	SHEET 12	E

2

LEGEND

CONCRETE SIDEWALK 5-INCH

N

2

3.00

721.79

5.0%

722.26

722.73

723.21

723.41

4.0%

724.43

3.5%

725.10

725.55

REVERSE SLOPE CURB & GUTTER

R/L 76th ON RAMP

CONCRETE PAVEMENT APPROACH SLAB

724.28

725.31

3.0%

10.0'

2.5%

725.60

2.0%

11.0'

2.0%

725.86

2.0%

11.0'

2.0%

725.06

725.39

725.69

725.91

726.14

726.06

MH

MH

MH

MH

76th ST. SB

BEGIN CONSTRUCTION
STA 49+50
MATCH EXISTING
ASPHALTIC BUTT JOINT

B-40-0255
(SEE STRUCTURE PLANS)

R/L 76th ST.

49+00

50+00

51+00

REVERSE SLOPE CURB & GUTTER

BEGIN CONSTRUCTION
STA 48+50
MATCH EXISTING
ASPHALTIC BUTT JOINT

722.92

723.62

724.28

724.83

725.27

725.61

725.84

725.98

2.0%

11.0'

2.0%

725.62

725.76

2.0%

11.0'

2.0%

725.40

3.0%

10.0'

2.0%

722.18

722.88

723.54

724.10

724.56

724.91

725.15

76th ST. NB

MH

MH

B-40-0256
(SEE STRUCTURE PLANS)

CONCRETE PAVEMENT
APPROACH SLAB

POST

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	JOINT DETAILS	SHEET 13	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\021401_JD.DWG
LAYOUT NAME - 01

PLOT DATE : 4/27/2022 7:48 AM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

CONCRETE PAVEMENT APPROACH SLAB

B-40-0255
(SEE STRUCTURE PLANS)

76th ST. SB

727.05 727.10 727.14 727.12 727.03 726.93 726.80
727.25 727.30
727.47 727.52
727.56 727.69 727.74 727.78 727.81 727.77 727.67 727.54

2.0% 10.0' 2.0% 11.0' 2.0% 11.0'
3.0% 2.0% 2.0%

MH MH MH MH

END CONSTRUCTION
STA 55+00
MATCH EXISTING
ASPHALTIC BUTT JOINT

12+00

53+00 54+00 55+00

R/L 76th ST.

REVERSE SLOPE CURB & GUTTER

727.46 727.56 727.68 727.73 727.74 727.71 727.63
727.59
727.24 727.34
727.02 727.12
726.82 726.84 726.83 726.63 726.21 725.57 724.72 723.84
726.99 726.96
726.64 726.03 725.14

2.0% 11.0' 2.0% 11.0' 2.7% 10.0'
2.0% 2.0% 3.0%
3.5% 4.0% 5.0% 6.0%

MH

END CONSTRUCTION
STA 54+78.53
MATCH EXISTING
ASPHALTIC BUTT JOINT

76th ST. NB

B-40-0256
(SEE STRUCTURE PLANS)

CONCRETE PAVEMENT APPROACH SLAB

R/L 76th OFF RAMP

REVERSE SLOPE CURB & GUTTER

LEGEND

CONCRETE SIDEWALK 5-INCH

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	JOINT DETAILS	SHEET 14	E

2

CITY OF MILWAUKEE LIGHTING

WE ENERGIES ELECTRIC

CITY OF MILWAUKEE CUC

76th ST. SB

76th ST. NB

B-40-0255
(SEE STRUCTURE PLANS)

B-40-0256
(SEE STRUCTURE PLANS)

49+00 50+00 51+00 52+00 53+00 54+00 55+00

BP: 1+30.00

EP: 10+35.00

EP: 12+92.59

PT: 179+12.67

179+00 180+00 182+00 183+00 184+00

PC: 182+58.43

PT: 9+90.89

10

MMSD

CITY OF MILWAUKEE LIGHTING

WE ENERGIES GAS

AT&T

R/L 76th ST.

IN STAGE 4 REMOVE ASPHALTIC SURFACE AND PLACE TOPSOIL AND RESTORE CROSSOVER TO THE END OF AREA DISTURBED BY THE PROJECT.

WE ENERGIES ELECTRIC

CITY OF MILWAUKEE WATER

WISDOT LIGHTING

WE ENERGIES GAS

CITY OF MILWAUKEE LIGHTING

WALLS

N

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
- A B C — INLET PROTECTION TYPE
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW

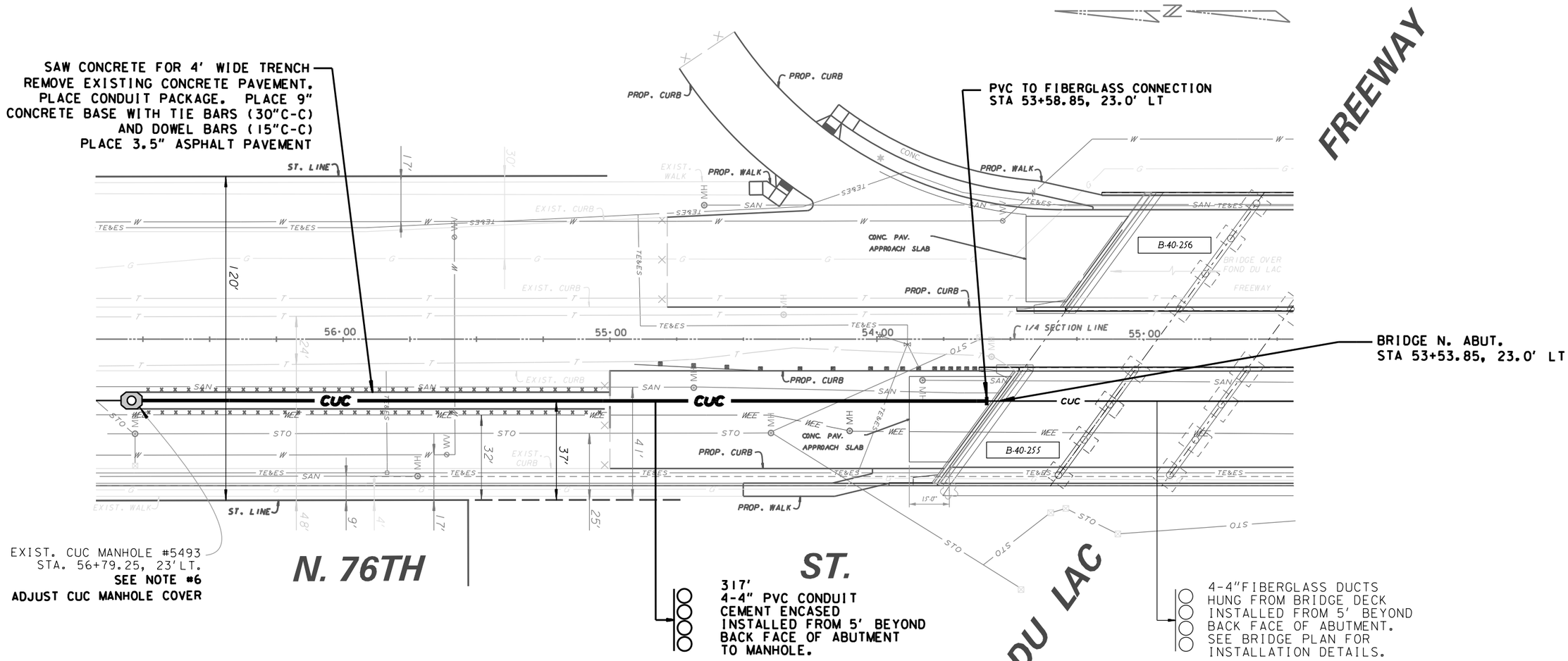
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	EROSION CONTROL PLAN	SHEET 15	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\022001_EC.DWG
LAYOUT NAME - 01

PLOT DATE : 4/27/2022 7:51 AM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:50 FT

STATE PROJECT NUMBER
1360 - 17 - 70

2



NOTES:

1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
2) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
3) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
4) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) REMOVE ABANDONED CONDUIT FROM MANHOLE WALL AND STREET AND INSTALL THE PROPOSED CONDUIT INTO THE MANHOLE AT THE SAME LOCATION.
7) REMOVE ABANDONED CONDUIT AS NEEDED FOR PROPOSED INSTALLATION.

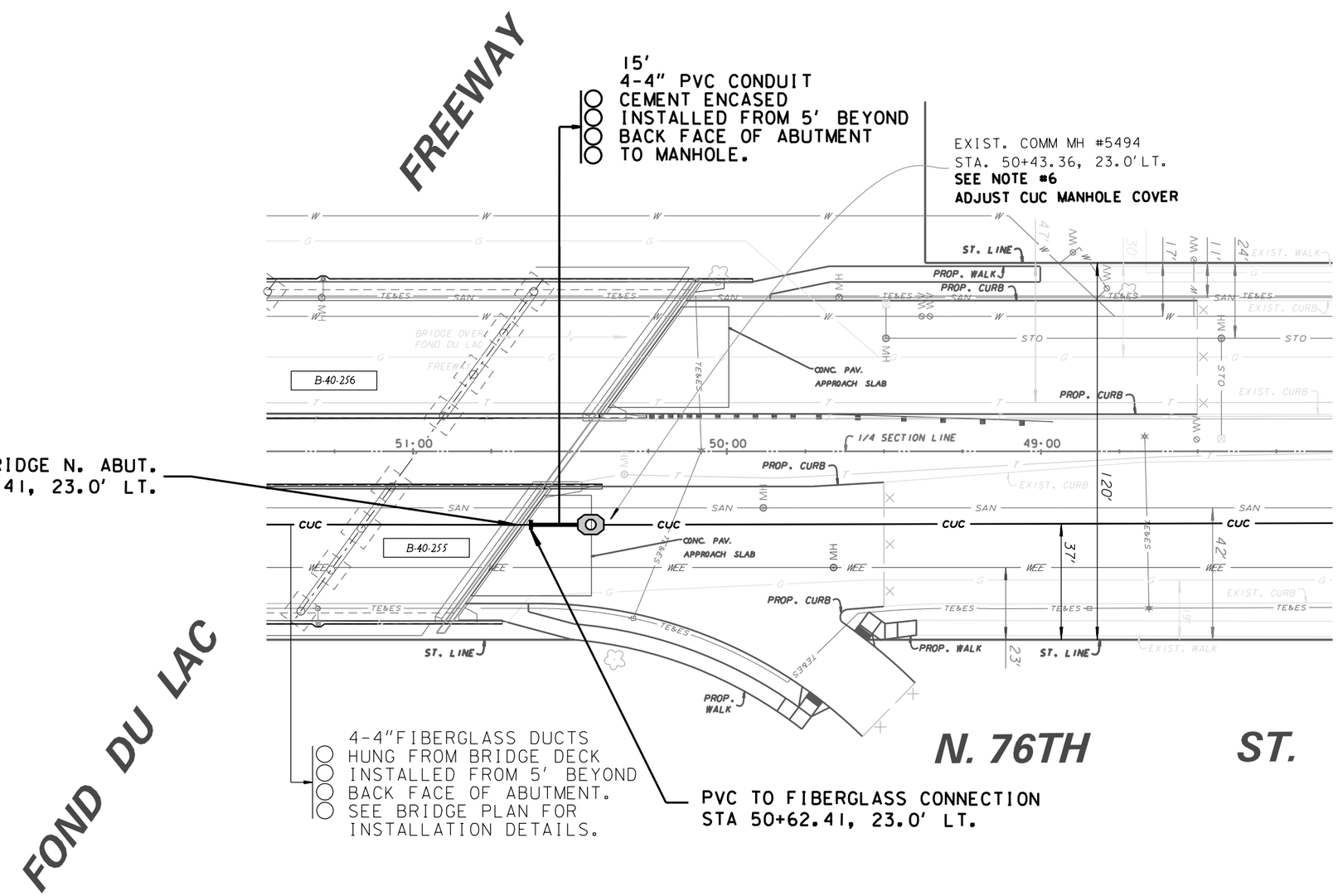
LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT & 4-INCH BLACK FIBER GLASS CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⊙	EXISTING CUC MANHOLE
—— CUC ——	EXISTING CONDUIT
— — — —	ABANDONED CONDUIT

STATE PROJECT NO.: 1360-17-70	HWY: S.T.H. 145	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT BRIDGE APPROACH(CUC)	SCALE FEET 0' 40'	SHEET 16	E

STATE PROJECT NUMBER
1360 - 17 - 70

2



NOTES:

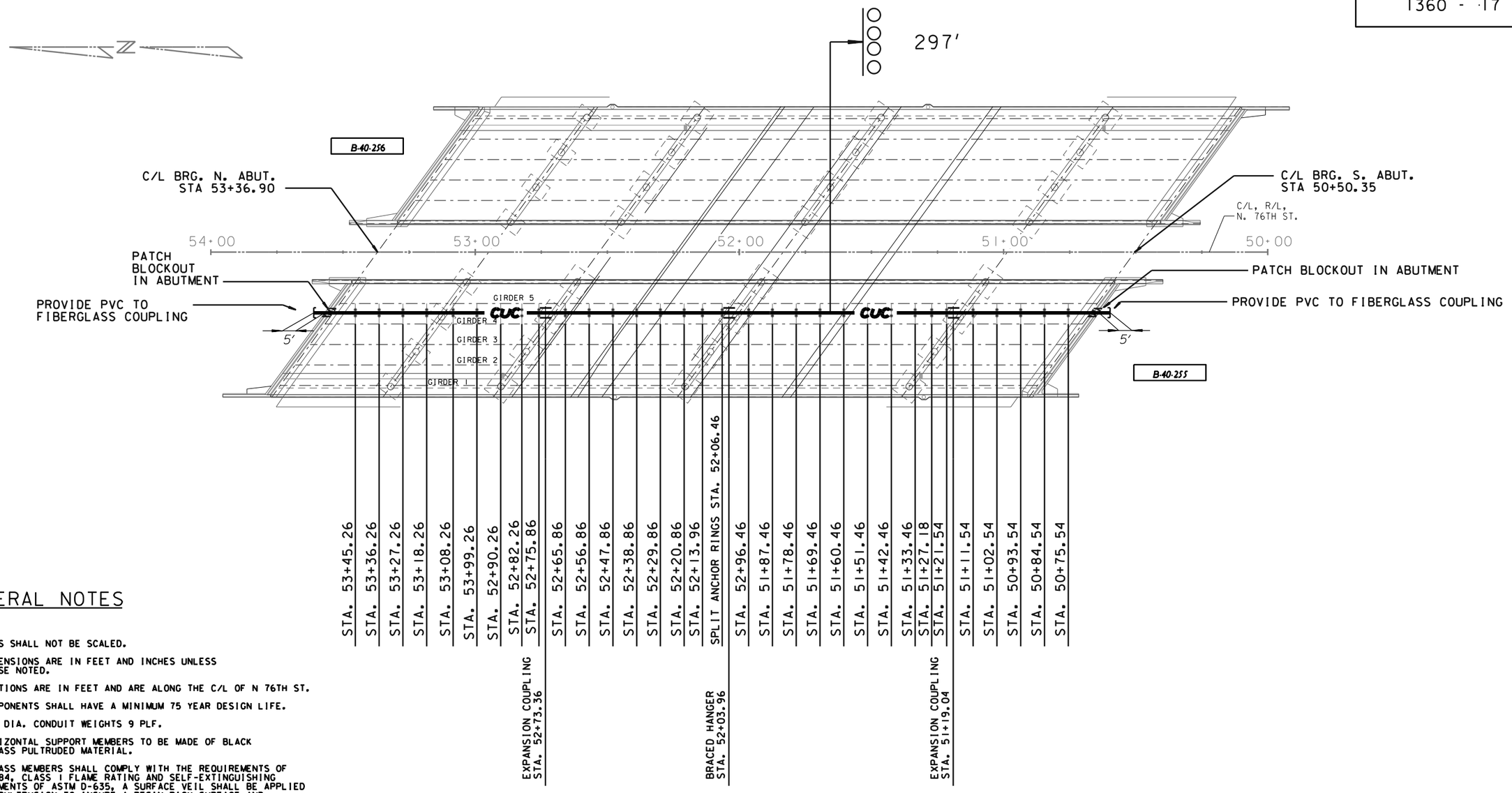
1) CONSTRUCTION STAKING FOR THE CITY UNDERGROUND CONDUIT (CUC) FACILITIES IS TO BE INCLUDED IN AND PAID FOR UNDER THE BID ITEM 650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS
2) THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
3) THE LOCATION OF THE EXISTING AND PROPOSED UTILITY INSTALLATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
4) DIMENSIONS SHOWN ARE TO CENTER OF MANHOLE, DUCT PACKAGE OR UTILITY.
5) MAINTAIN A STANDARD DEPTH OF 39-INCHES BETWEEN FINISHED GRADE AND TOP OF CONDUIT.
6) REMOVE ABANDONED CONDUIT FROM MANHOLE WALL AND STREET AND INSTALL THE PROPOSED CONDUIT INTO THE MANHOLE AT THE SAME LOCATION.
7) REMOVE ABANDONED CONDUIT AS NEEDED FOR PROPOSED INSTALLATION.

LEGEND

— CUC —	PROPOSED 4-INCH CEMENT ENCASED NONMETALLIC CONDUIT & 4-INCH BLACK FIBER GLASS CONDUIT, NUMBER OF RUNS AS NOTED.
●	PROPOSED CUC MANHOLE
⬡	EXISTING CUC MANHOLE
—— CUC ——	EXISTING CONDUIT
— — — —	ABANDONED CONDUIT

STATE PROJECT NO.: 1360-17-70	HWY: S.T.H. 145	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT BRIDGE APPROACH(CUC)	SCALE FEET 0' 40'	SHEET 17	E

STATE PROJECT NUMBER
1360 - 17 - 70



STA. 53+45.26
STA. 53+36.26
STA. 53+27.26
STA. 53+18.26
STA. 53+08.26
STA. 53+99.26
STA. 52+90.26
STA. 52+82.26
STA. 52+75.86
EXPANSION COUPLING
STA. 52+73.36
STA. 52+65.86
STA. 52+56.86
STA. 52+47.86
STA. 52+38.86
STA. 52+29.86
STA. 52+20.86
STA. 52+13.96
SPLIT ANCHOR RINGS STA. 52+06.46
BRACED HANGER
STA. 52+03.96
STA. 52+96.46
STA. 51+87.46
STA. 51+78.46
STA. 51+69.46
STA. 51+60.46
STA. 51+51.46
STA. 51+42.46
STA. 51+33.46
STA. 51+27.18
STA. 51+21.54
EXPANSION COUPLING
STA. 51+19.04
STA. 51+11.54
STA. 51+02.54
STA. 50+93.54
STA. 50+84.54
STA. 50+75.54

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS ARE IN FEET AND ARE ALONG THE C/L OF N 76TH ST.

ALL COMPONENTS SHALL HAVE A MINIMUM 75 YEAR DESIGN LIFE.

EACH 4" DIA. CONDUIT WEIGHTS 9 PLF.

ALL HORIZONTAL SUPPORT MEMBERS TO BE MADE OF BLACK FIBERGLASS PULTRUDED MATERIAL.

FIBERGLASS MEMBERS SHALL COMPLY WITH THE REQUIREMENTS OF ASTM E-84, CLASS I FLAME RATING AND SELF-EXTINGUISHING REQUIREMENTS OF ASTM D-635, A SURFACE VEIL SHALL BE APPLIED DURING PULTRUSION TO INSURE A RESIN RICH SURFACE AND ULTRAVIOLET RESISTANCE.

ALL CUTS AND HOLES SHOULD BE PROPERLY SEALED PER MANUFACTURERS RECOMMENDATIONS TO PREVENT CORROSION.

ALL STEEL MEMBERS AND HARDWARE SHALL BE 304 STAINLESS STEEL.

FURNISH CONCRETE FOR BRIDGES CONFORMING TO SECTION 501. GRADE E. CONTRACTOR MAY USE PREMIXED BAG CEMENT PER ENGINEER'S APPROVAL.

SPACE HANGERS A MAXIMUM 10'-0". LOCATE CONDUIT HANGERS BETWEEN GIRDERS 4 & 5. SEE BRIDGE PLANS.

ALL FIBERGLASS JOINTS SHALL BE EPOXIED PER MANUFACTURER'S SPECIFICATIONS.

EXTEND CONDUIT 5'-0" FROM BACK FACE OF ABUTMENT. PROVIDE FIBERGLASS TO PVC COUPLING.

FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

INSTALL EXPANSION JOINT PER LOCATION SHOWN ON BRIDGE PLAN.

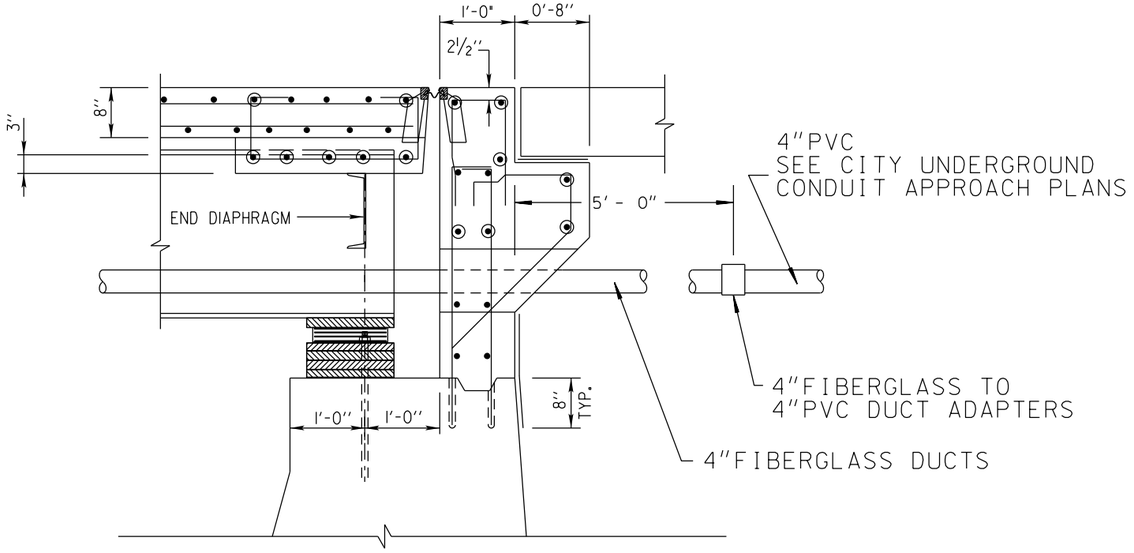
1 - 4 DUCT CITY COMMUNICATIONS PACKAGE - 297' - 5' BEYOND ABUTMENT TO 5' BEYOND ABUTMENT

8

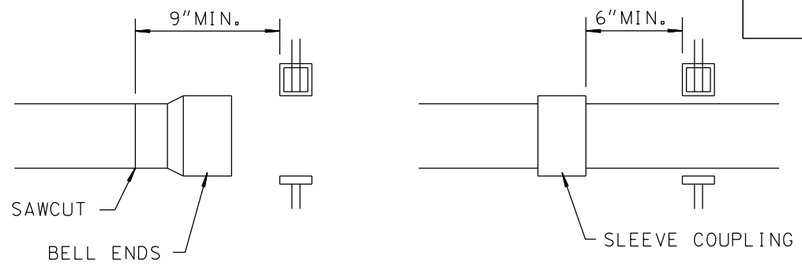
8

STATE PROJECT NO.: 1360-17-70	HWY: S.T.H. 145	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT BRIDGE INSTALLATION (CUC)	SCALE FEET NTS	SHEET 18	E

STATE PROJECT NUMBER
1360 - 17 - 70

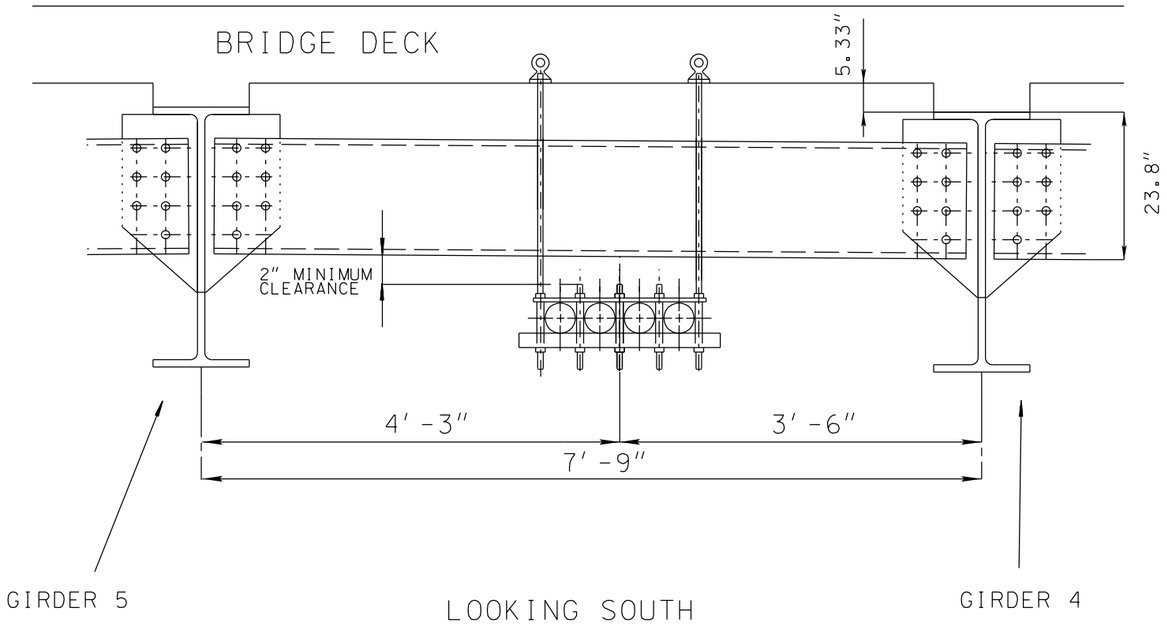


ABUTMENT DETAIL



CLEARANCES FOR SLEEVE
COUPLINGS AND BELL ENDS

NOTES:
A BELLED END OR COUPLING SHOULD BE NO CLOSER THAN 6" ON EITHER SIDE OF A SUPPORT AS SHOWN ABOVE. A TAPE MEASURE CAN BE USED TO PREDETERMINE THESE LOCATIONS AND THE CONDUIT CAN BE SAW CUT TO THE PROPER LENGTH BEFORE IT IS THREADED THROUGH THE HANGERS AS SHOWN ABOVE.



4-DUCT CITY COMMUNICATION HANGER PACKAGE THROUGH INTERMEDIATE DIAPHRAM DETAIL

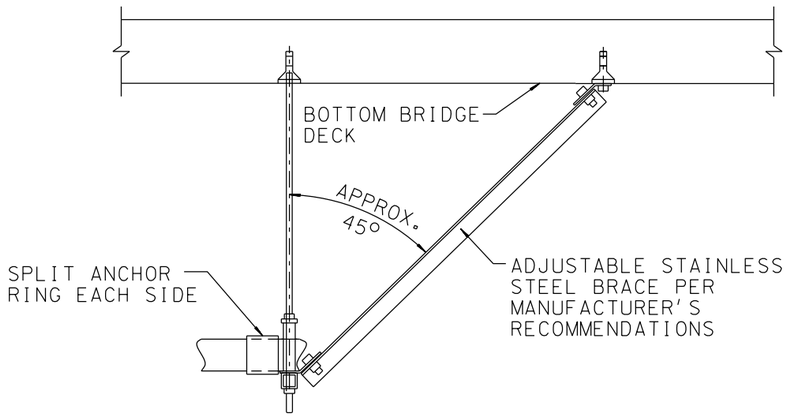
8

8

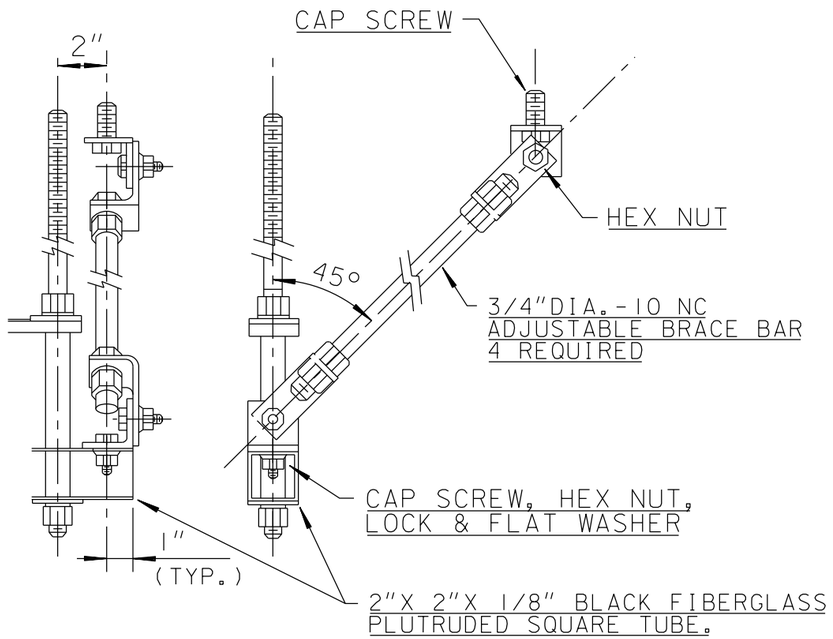
STATE PROJECT NO.: 1360-17-70	HWY: S.T.H. 145	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT BRIDGE APPROACH DETAILS (CUC)	SCALE FEET NTS	SHEET 19	E

STATE PROJECT NUMBER

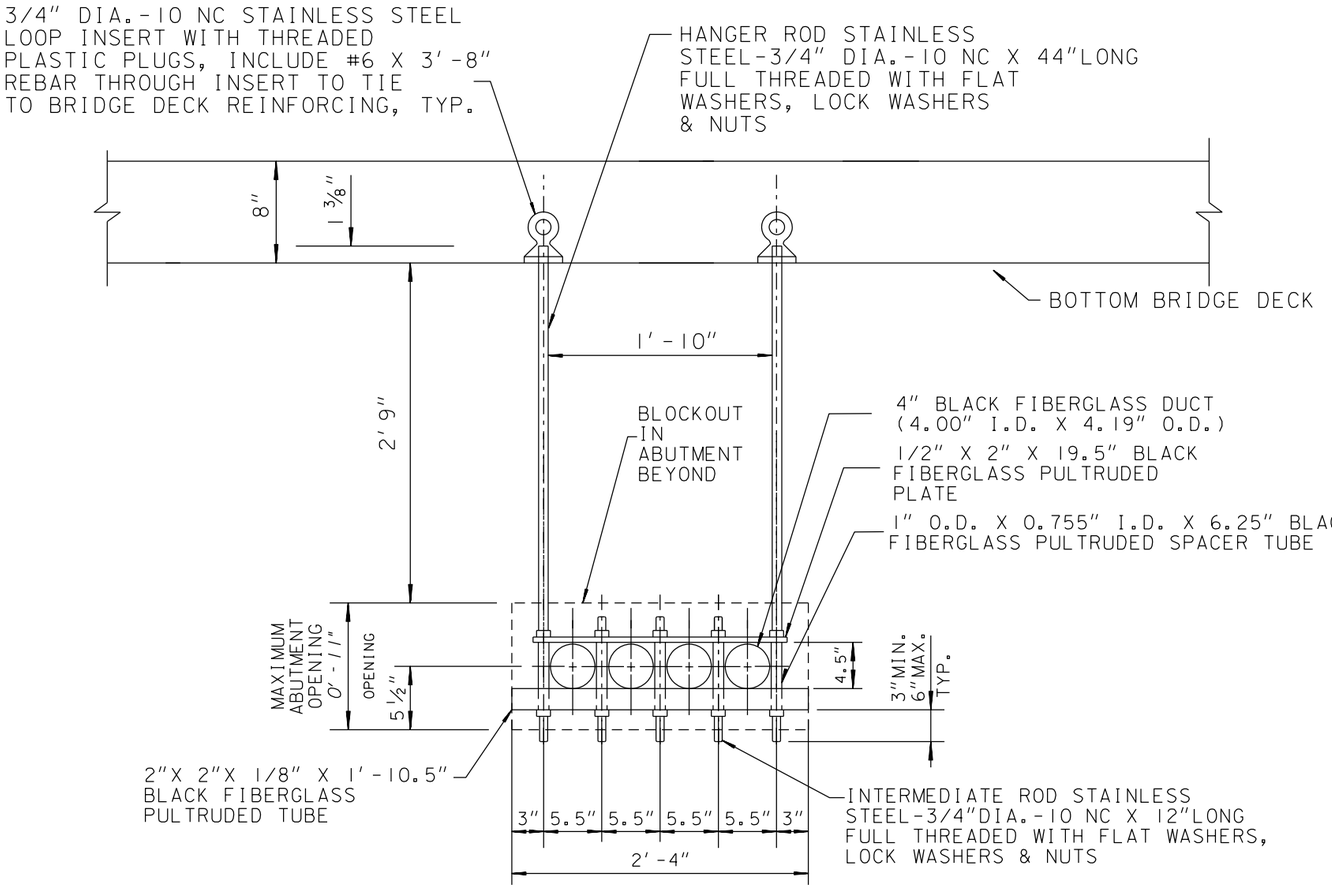
1360 - 17 - 70



BRACED HANGER DETAIL



BRACED HANGER DETAIL



4 DUCT CITY COMMUNICATION HANGER PACKAGE DETAIL

* THE CONTRACTOR SHALL FIELD VERIFY HANGER LENGTHS IN ORDER TO AVOID CONFLICTS WITH DIAPHRAM CROSSING.

8

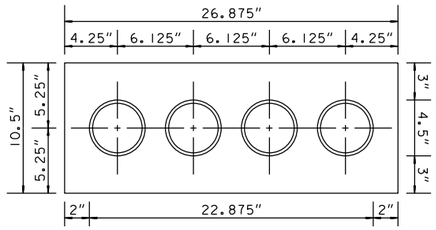
8

STATE PROJECT NO.: 1360-17-70	HWY: S.T.H. 145	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT BRIDGE APPROACH DETAILS (CUC)	SCALE FEET NTS	SHEET 20	E

FILE NAME : W:\ugd\Conduit Work Files\uconduit\2021\76TH STREET BRIDGE\Design\CO-B-40-255_LAYOUT_1

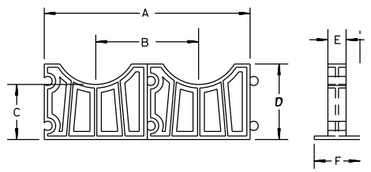
PLOT DATE : 04 /04 /2022 PLOT BY : Hazem Ramadan PLOT NAME : _____ PLOT SCALE : NTS

WISDOT/CADDS SHEET

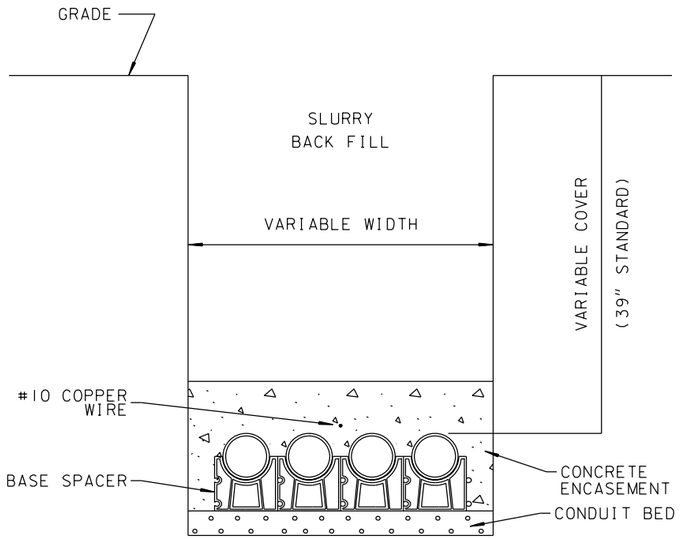


4-DUCT CROSS SECTION VIEW
N.T.S.

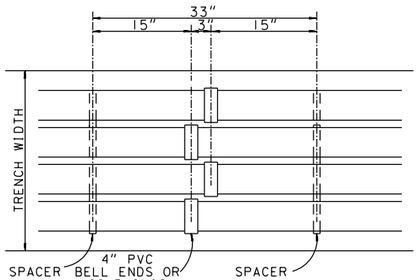
COND.	3"	4"
A	10 1/4"	12 1/4"
B	5.13"	6.13"
C	3"	3"
D	4 3/4"	5.31"
E	1"	1"
F	3"	3"



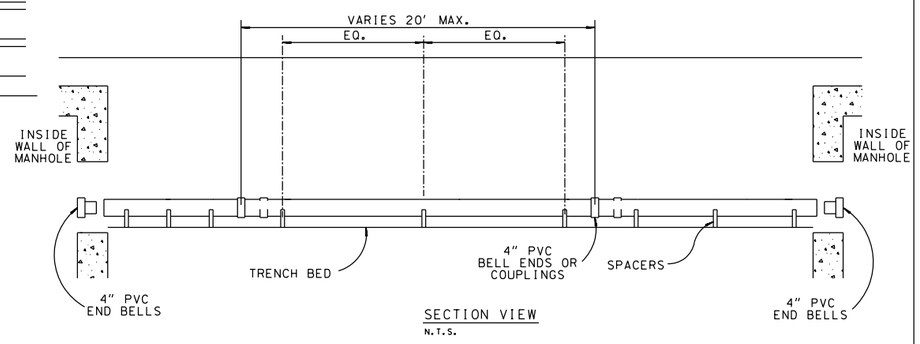
BASE SPACER DETAIL
N.T.S.



TRENCH AND 4-DUCT CROSS-SECTION VIEW
N.T.S.

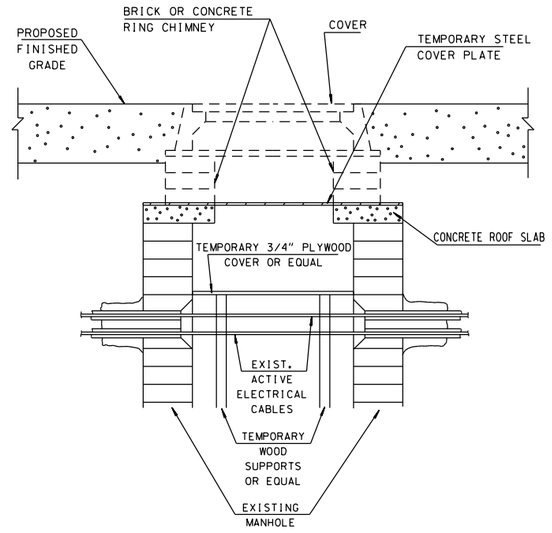


PLAN VIEW
N.T.S.

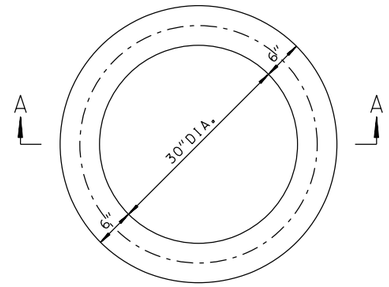


SECTION VIEW
N.T.S.

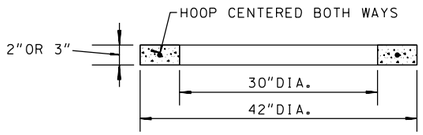
DUCT INSTALLATION DETAIL



BLOCK OR PRECAST MANHOLE



PLAN



SECTION A-A

THE ADJUSTING RING SHALL BE 2" OR 3" IN HEIGHT.

THE CIRCUMFERENTIAL STEEL SHALL BE CENTERED WITHIN THE RING.

AREA OF CIRCUMFERENTIAL STEEL = 0.07 SQ. INCH PER VERTICAL FOOT WITH A MINIMUM OF .024 SQ. INCH IN ANY ONE RING.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE CORE SHALL BE 4000 P.S.I.

CONCRETE ADJUSTING RING

ADJUSTING CUC MANHOLES
N.T.S.

STATE PROJECT NUMBER
1360 - 17 - 70

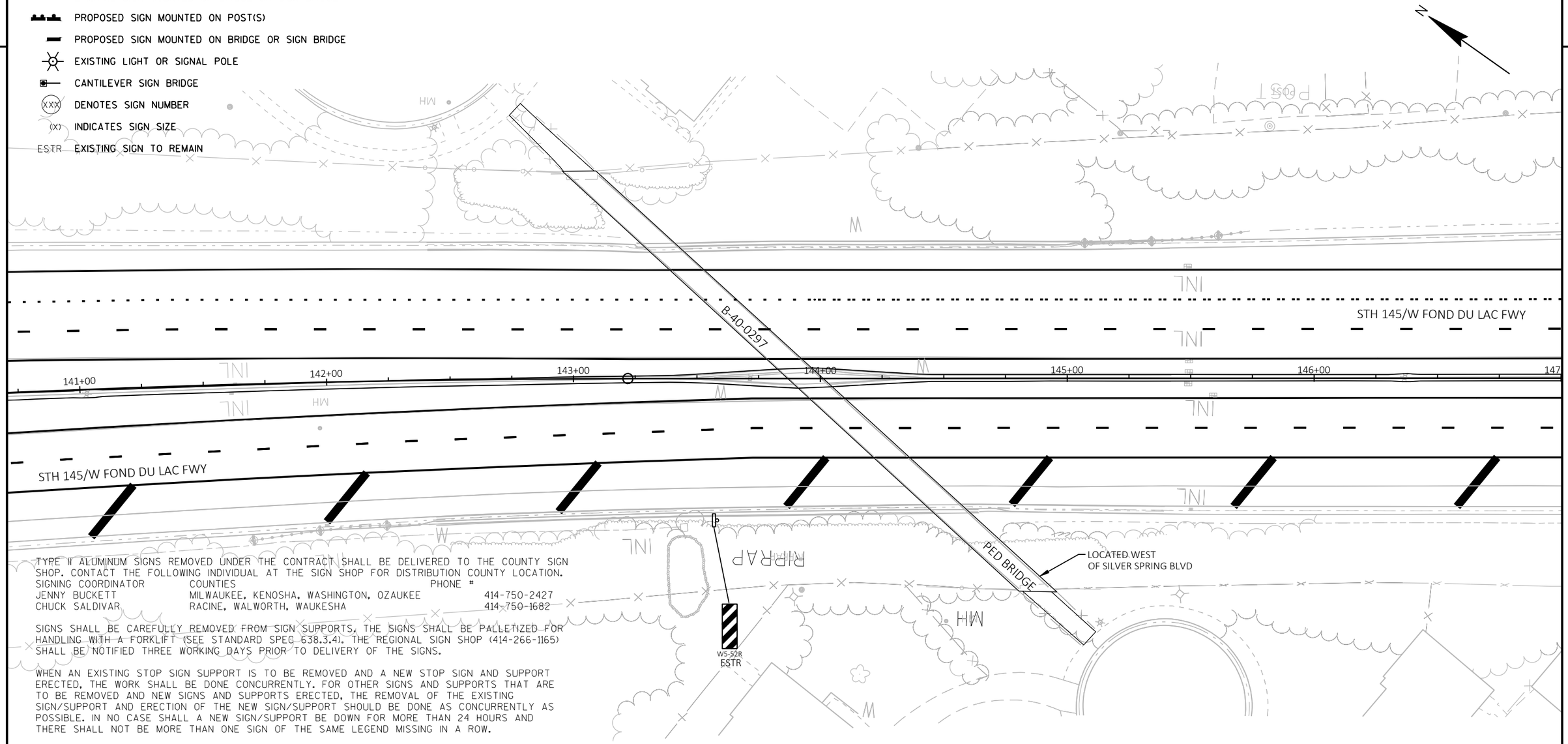
STATE PROJECT NO.: 1360-17-70	HWY: S.T.H. 145	COUNTY: MILWAUKEE	CITY UNDERGROUND CONDUIT DETAILS (CUC)	SCALE FEET NTS	SHEET 21	E

FILE NAME : W:\ugd\Conduit Work Files\uconduit\2021\76TH STREET BRIDGE\Design\CO-B-40-255_LAYOUT_1
PLOT DATE : 04 /04 /2022
PLOT BY : Hazem Ramadan
PLOT NAME : _____
PLOT SCALE : 40
WISDOT/CADDS SHEET

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTIES	PHONE #
JENNY BUCKETT	MILWAUKEE, KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
CHUCK SALDIVAR	RACINE, WALWORTH, WAUKESHA	414-750-1682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POST SIZES FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

BOX OUT OR CORING OF CONCRETE SIGN POSTS IS INCIDENTAL TO THE POST

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 22	E

FILE NAME : N:\PDS\C3D\CAD\13601300\SIGN\70\023201_PS_20.DWG
LAYOUT NAME - 01
PLOT DATE : 3/10/2022 8:35 AM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

T507
129.40

B-40-0298

SPEED LIMIT 55
R2-1
ESTR
L.P.

STH 145/W FOND DU LAC FWY

165+00 166+00 167+00 168+00 169+00 170+00

STH 145/W FOND DU LAC FWY

EXIT 7 B
181
76 TH STREET
EXIT ONLY
TYPE I
ESTR

SOUTH
145
J4-1
COLUMN
ESTR

SPEED LIMIT 55
R2-1
ESTR
L.P.

EXIT
30 MPH
W13-2D
ESTR

SHEET 2 OF 5

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 23	E

FILE NAME : N:\PDS\C3D\CAD\13601300\SIGN\70\023201_PS_20.DWG
LAYOUT NAME - 02

PLOT DATE : 3/10/2022 8:36 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

76TH ST

B-40-0256

5 REMOVE
W4-3R (5)

4
W5-52R
MOVE
4' HEIGHT

NORTH 145 MILE 7 .6
D10-5
ESTR
L.P.

W4-1R
ESTR

N

179+00 180+00 181+00 182+00 183+00 184+00

STH 145/W FOND DU LAC FWY

2 3
N 76th St
M1-94
MOVE FROM
OLD TO NEW
BRIDGE

1
RIDESHARE
INFO CALL
1 - 800 - 455 - POOL
D12-2A (5)

RIDESHARE
INFO CALL
1 - 800 - 455 - POOL
REMOVE

B-40-0255

SOUTH 145 MILE 7 .6
D10-5
ESTR
L.P.

76TH ST

SHEET 3 OF 5

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 24 E

FILE NAME : N:\PDS\C3D\CAD\13601300\SIGN\70\023201_PS_20.DWG
LAYOUT NAME - 03

PLOT DATE : 3/10/2022 8:36 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

76TH ST SB

76TH ST NB

STH 145/W FOND DU LAC FWY

SOUTH 145 — REMOVE — 12 — SOUTH 145 — J3-1(2S)

W11-2 (2S) — W16-7L (2S) L.P. — 11 — 11A

RAMP 25 MPH — REMOVE — RAMP 25 MPH — 9 — W13-3B (2M)

10 — MOVE — Fond Du Lac Ave NEXT SIGNAL — D1-65

W3-3 ESTR

NORTH 145 — REMOVE — 13 — NORTH 145 — J2-1(2M) L.P.

NORTH 145 — REMOVE — 6 — NORTH 145 — J2-1(2M)

BEGIN RIGHT TURN LANE YIELD TO BIKES — NO PARKING ANY TIME — REMOVE — 7 — BEGIN RIGHT TURN LANE YIELD TO BIKES — R4-4 (2M)

8 — NO PARKING ANY TIME — R7-1L (2M)

00+78

00+81

00+83

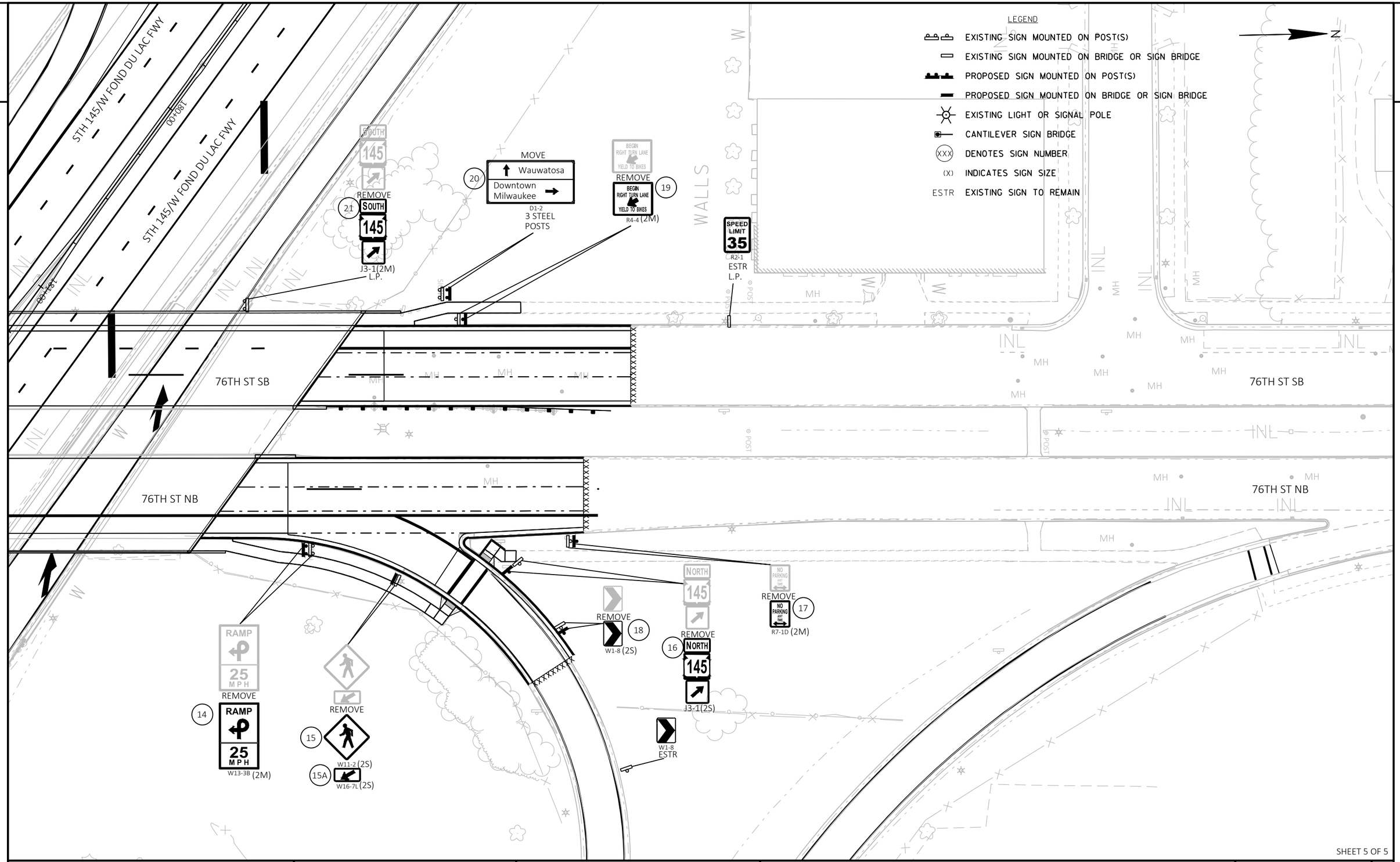
00+84

SHEET 4 OF 5

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 25	E

FILE NAME : N:\PDS\C3D\CAD\13601300\SIGN\70\023201_PS_20.DWG
LAYOUT NAME - 04

PLOT DATE : 3/10/2022 8:36 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 26	E

FILE NAME : N:\PDS\C3D\CAD\13601300\SIGN\70\023201_PS_20.DWG
LAYOUT NAME - 05

PLOT DATE : 3/10/2022 8:37 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

STREET LIGHTING GENERAL NOTES:

PRIOR TO CONSTRUCTION, THE LOCATION OF UNDERGROUND UTILITIES SHALL BE DETERMINED IN THE FIELD BY CONTACTING "DIGGERS HOTLINE."

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

STREET LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 EXCEPT:

ALL CHANGES OR ANY DEVIATIONS FROM PLANS MUST BE APPROVED BY STREET LIGHTING ENGINEERING.

DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1 THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCLUDING REPAIRS, REPLACEMENT OR RELOCATION ETC. OF STREET LIGHTING FACILITIES IF THE CONTRACTOR DOES ANY DEVIATION FROM THE
2 STREET LIGHTING DESIGN WITHOUT THE STREET LIGHTING ENGINEERS SIGNED PERMISSION.

3 LOCATIONS OF THE HDPE AND NON-METALLIC PVC CONDUITS WHERE THEY ARE REQUIRED ARE IDENTIFIED IN THE PRINTS. HOWEVER, INSTALLATION MAY REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. ANY RELOCATIONS MUST BE APPROVED BY THE ENGINEER.

4 CONDUIT INSTALLED BEHIND CURB, AND UNDER DRIVEWAYS SHALL BE INSTALLED AT A DISTANCE OF MINIMUM OF 6-INCHES AWAY FROM THE BACK OF CURB TO THE CENTER LINE OF CONDUIT, AND MINIMUM 24 INCHES DOWN MEASURED FROM THE TOP OF CURB OR FINISHED GRADE TO THE TOP OF CONDUIT.

5 DEPTH OF CONDUIT INSTALLED BELOW STREETS, HIGHWAYS, AND ALLEYS SHALL BE 24-INCHES MINIMUM AND 36-INCHES MAXIMUM. (MEASURED FROM FINISHED FLANGE LINE)
IF THE CONTRACTOR DOES ANY DEVIATION FROM THE STREET LIGHTING DESIGN WITHOUT THE STREET LIGHTING ENGINEERS SIGNED PERMISSION.

6 WHEN THERE IS MORE THAN ONE CONDUIT TO BE INSTALLED, PLACE ALL CONDUITS IN THE SAME TRENCH, OR BORE MULTIPLE CONDUITS TOGETHER AT THE SAME TIME.

7 ANY EXCEPTION TO THE MINIMUM OR MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

8 BENDING OF NON-METALLIC PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

9 ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS. (PER NEC CODE)

10 PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED IMMEDIATELY AFTER INSTALLATION WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

11 ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

12 3/8-INCH PULL ROPE SHALL BE INSTALLED IN ALL NEW AND EMPTY CONDUIT.

13 CONDUIT RUNS SHALL BE THE SAME SIZE CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX OR JUNCTION BOX OR PULL BOX TO CONCRETE BASE, ETC.).

14 UNLESS THE CONDUIT IS DESIGNED AND SHOWN WITH BENDS ON THE PLANS, ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO CONCRETE BASE, AND PULL BOX TO ENCLOSURE. OTHERWISE IT MUST BE APPROVED BY THE STREET LIGHTING ENGINEER.

15 MINIMUM CONDUIT CLEARANCES FOR CONDUIT CROSSINGS AND PULL BOXES FROM THE FOLLOWING:
FIRE HYDRANTS: 6-FT TREE TRUNKS: 10-FT END OF DRIVEWAY FLARES: 6-FT
UNLESS NOTED OTHERWISE, OR APPROVED BY THE STREET LIGHTING ENGINEER.

16 HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED AND WILL BE CONSIDERED INCIDENTAL TO THE BID ITEM BEING INSTALLED. COORDINATE ALL WORK NEAR GAS LINES WITH WE ENERGIES.

STREET LIGHTING GENERAL NOTES:

17 TYPICAL RECTANGULAR PULL BOXES / VAULTS SHOULD BE INSTALLED AS SHOWN ON PLANS, BUT WHEN IT IS NOT POSSIBLE, A 5 FT. TO 6 FT. OFFSET FROM STREET LIGHT POLES, SIGNAL STANDARDS AND FIRE HYDRANTS SHOULD BE USED, OTHERWISE APPROVED BY THE STREET LIGHTING ENGINEER.

18 TYPICAL CONDUIT INSTALLATION FROM THE PULL BOX TO A DIRECT BURIED STREET LIGHT POLE IS AS FOLLOWS: USE A NYLON LIQUIDTIGHT CONNECTOR (UL APPROVED) TO CONNECT THE 1 1/2-INCH LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT LFNC-B (UL APPROVED) TO THE PULL BOX AND CONNECT TO STREET LIGHT POLE BY STUBBING UP A MINIMUM OF 6-INCHES OF THE LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT (LFNC-B) INTO THE CABLE SLOT.

19 ALL HDPE OR NON-METALLIC PVC CONDUITS THAT CONNECT TO PULL BOXES REQUIRE A PVC END BELL CONNECTOR INSIDE THE PULL BOX

20 PROVIDE REMOVABLE SEALANT SUCH AS DUCT SEAL IN THE CONDUITS AT THE CABINETS, PULL BOXES AND JUNCTION BOXES TO AVOID CONDENSATION CAUSED BY AIRFLOW THROUGH THE CONDUITS DUE TO TEMPERATURE DIFFERENCE. THIS WORK SHALL BE INCIDENTAL TO ASSOCIATED CONDUIT PAY ITEM.

21 CONDUCTOR COLORS: 240/480, 1 PHASE - BLACK / RED / WHITE (NEUTRAL) / GREEN (GROUND)

22 PROVIDE MINIMUM CABLE/CONDUCTOR(S) SLACK AS NOTED BELOW:
PULL BOXES: 3-FT EMBEDDED JUNCTION BOXES: 3-FT
DISTRIBUTION CENTER/LOAD CENTER: 10-FT BREAK AWAY TRANSFORMER BASE: 2-FT

23 UNDERGROUND WIRE & CONDUIT SHOWN ON PLANS TO BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.

24 LIGHT POLES INSTALLED BEHIND THE CURB MUST MEET A MINIMUM DISTANCE OF 24 INCHES FROM THE FACE OF CURB TO THE CURB SIDE FACE OF THE POLE OR TRAFFIC STANDARD.

25 ON ALL NEW STREET LIGHT POLES A PLAQUE WITH THE POLE NUMBER AS SHOWN ON THE PLANS SHALL BE AFFIXED ONTO THE POLE SHAFT.

26 COORDINATE NEW CONDUIT CONNECTIONS WITH EXISTING CONDUIT, DUCT PACKAGES, AND PULL BOXES/ VAULTS/ MANHOLES WITH CITY OF MILWAUKEE STREET LIGHTING. THE CITY REQUIRES THREE WORKING DAYS ADVANCED NOTICE. CONTACT ELECTRICAL SUPERVISOR
STREET LIGHTING - NEAL KARWEIK (OFFICE 414-286-5943 (CELL) 414-708-4245
STREET LIGHTING - MARK MACRAE (OFFICE) 414-286-5928 (CELL) 414-708-0434
STREET LIGHTING - DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - RUDY GUTIERREZ (OFFICE) 414-286-5941 (CELL) 414-708-5148
TRAFFIC SIGNALS - DISPATCHER @ 414-286-3687

27 IMMEDIATELY AFTER THE CONTRACTOR HAS COMPLETED ALL THE ELECTRICAL PULL BOXES / VAULTS, CONDUIT AND CONDUIT CONNECTIONS, AND JUST BEFORE ELECTRICAL WORK IS COVERED UP WITH CONRETE, SOIL, OR ETC. THE CONTRACTOR IS REQUIRED TO CONTACT THE CITY OF MILWAUKEE ELECTRICAL SHOP SUPERVISORS FOR FINAL INSPECTION AND APPROVAL OF ALL WORK.
STREET LIGHTING - NEAL KARWEIK (OFFICE) 414-286-5943 (CELL) 414-708-4245
STREET LIGHTING - MARK MACRAE (OFFICE) 414-286-5928 (CELL) 414-708-0434
STREET LIGHTING - THOMAS HUGHES (OFFICE) 414-286-3457 (CELL) 414-708-3175
STREET LIGHTING - DISPATCHER @ 414-286-5944
TRAFFIC SIGNALS - RUDY GUTIERREZ (OFFICE) 414-286-5941 (CELL) 414-708-5148
TRAFFIC SIGNALS - DISPATCHER @ 414-286-3687

28 CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS DETAILING THE FINAL PLACEMENT OF CONDUIT, CABLING, EQUIPMENT, AND GEOMETRIC MODIFICATIONS UNDER THE CONTRACT. PROVIDE PDF COPY CONFORMING TO CMM 1-65.14, OR RECORD ALL CHANGES IN RED INK ONLY ON THE AS-LET (DESIGN) PAPER DRAWINGS. THE CITY OF MILWAUKEE DPW ENGINEER WILL REJECT AS-BUILTS WITH INCOMPLETE OR INCORRECT CONTENT OR NOT CONFORMING TO CMM STANDARDS.

29 CONTRACTOR TO DELIVER THE FOLLOWING REMOVED STREET LIGHTING MATERIALS:
-ALUMINUM AND WOOD POLES
-LUMINAIRE BRACKET ARMS
-LUMINAIRES
-BREAKAWAY TRANSFORMER PEDESTALS
-WIRING PEDESTALS (GREEN IN COLOR)
TO CITY OF MILWAUKEE STREET LIGHTING YARD AT 1540 W. CANAL ST.
CALL RICO LOPEZ AT 414-286-5983 (CANAL) OR 414-286-6123 N. 35th ST.)
OR ELSE DISPATCHER AT 414-286-5944, THREE (3) WORKING BEFORE TO COORDINATE DELIVERY OF MATERIALS

30 CONTRACTOR WILL BE RESPONSIBLE FOR THE DISPOSAL OF CONCRETE POLES, AND WIRING.

STREET LIGHTING GENERAL NOTES:

AS-BUILT GUIDELINES:

PROVIDE AS-BUILT DRAWINGS DETAILING THE FINAL PLACEMENT OF CONDUIT, CABLING, EQUIPMENT, AND GEOMETRIC MODIFICATIONS UNDER THE CONTRACT. PROVIDE PDF COPY CONFORMING TO CMM 1-65.14, OR RECORD ALL CHANGES IN RED INK ONLY ON THE AS-LET (DESIGN) PAPER DRAWINGS. THE ENGINEER WILL REJECT AS-BUILTS WITH INCOMPLETE OR INCORRECT CONTENT OR NOT CONFORMING TO CMM STANDARDS.

IT IS CRITICAL THAT THE CONTRACTOR WORK ON THE AS-BUILT DRAWINGS WHILE THE JOB IS PROGRESSING, SO CHANGES ARE DOCUMENTED WHILE THEY ARE STILL FRESH IN YOUR MIND.

IF THERE IS A STRUCTURE DRAWING, INCLUDE ALL STRUCTURES DRAWING SHEETS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSERT ANY ADDENDUM OR REPLACEMENT DRAWING SHEETS. TO DO THIS, RENUMBER THEM SIMILARLY TO THE ORIGINAL DRAWING SHEET.

FOR EXAMPLE:
REVISED SHEET 5 WOULD REPLACE SHEET 5. HOWEVER, ALL THE ORIGINAL SHEETS SHALL REMAIN IN THE AS-BUILT. IF THE SHEET HAS BEEN REPLACED CROSS IT OUT WITH AN X AND INDICATE THE NUMBER OF ITS REPLACEMENT SHEET. IF ADDITIONAL SHEETS WERE ADDED, INSERT THEM IN THE ORIGINAL LOCATION AND LABEL THEM WITH THE PREVIOUS SHEET NUMBER FOLLOWED BY AN "A", "B", "C", ETC.

NOTE THE SHEET CHANGES ON THE TITLE SHEET UNDER THE ORDER OF SHEETS.

THE TITLE SHEET OF THE AS-BUILT DRAWING SHOULD INCLUDE THE FOLLOWING INFORMATION:
AS-BUILT DRAWING
SUPERVISOR:
PROJECT MANAGER:
CONTRACTOR LEADER:
CONTRACTOR COMAPNY:
WORK STARTED:
WORK COMPLETED:

LINE OUT OR CROSS OUT ALL CHANGED INFORMATION AND WRITE-IN THE CORRECTED INFORMATION ABOVE THE ORIGINAL OR CLOSE TO IT WHEREVER POSSIBLE. USE BLANK SPACES ON THE DRAWING SO NOTES ARE NOT SUPERIMPOSED. DRAWINGS WITH EXCESSIVE DETAIL MAY REQUIRE AN ALTERNATE APPROACH. NUMBERED CHANGES OR ADDITIONS MAY BE SHOWN ON SUPPLEMENTAL NON-DRAWING SHEETS.

- LOCATE AND CLEARLY LABEL ALL CONDUIT RUNS, FITTINGS, SPLICE VAULTS, PULL BOXES, METER PEDESTALS, CONCRETE BASES, TRANSFORMERS, POLES AND OTHER APPURTENANCES IN TWO DIRECTIONS. SWING TIES SHOULD BE MADE FROM THE OBJECTS THAT ARE PERMANENT IN NATURE AND VISIBLE ON THE FINISHED SURFACE.
- STREET NAMES SHALL BE ON ALL SHEETS.
- SHOW ALL SIZES AND MATERIAL TYPES OF PIPES AND CONDUITS, IF CHANGED OR MODIFIED FROM ORIGINAL DESIGN.
- ALL HORIZONTAL DISTANCES SHALL BE SHOWN TO THE NEAREST TENTH OF A FOOT (I.E., 205.3'). ALL VERTICAL DISTANCES SHALL BE TO THE NEAREST INCH (I.E., 24")
- SHOW LOCATION AND ELEVATIONS ON PIPES AND FITTINGS WHERE CHANGES OR DEFLECTIONS IN DIRECTION OCCUR.
- SPECIAL DETAIL DRAWINGS MAY BE REQUIRED WHERE INSTALLATIONS ARE NOT SHOWN ON APPROVED CONSTRUCTION DRAWINGS FOR WHATEVER REASON OR WHERE REQUIRED FOR CLARITY.
- TYPICAL SERVICE INSTALLATION DETAILS WITH DEVIATIONS FROM ORIGINAL PLANS OR STANDARD DETAILS SHALL BE NOTED ON AS-BUILT DRAWINGS.
- NO ARBITRARY MARK-UPS WILL BE PERMITTED.

IF THERE ARE NO CORRECTIONS OR ADDITIONS TO THE AS-LET PLAN(S) PUT "NO CHANGE" ON THE SHEET WITH ALL OTHER REQUIRED AS-BUILT INFORMATION.

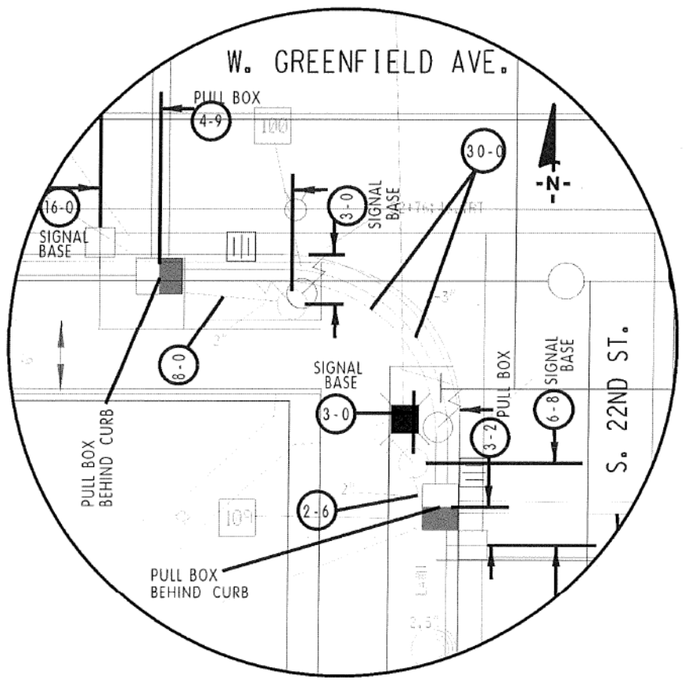
SEND TO:
CITY OF MILWAUKEE
INFRASTRUCTURE SERVICES DIVISION
TRANSPORTATION SECTION
STREET LIGHTING & CUC MANAGER
841 NORTH BROADWAY
ROOM 920
MILWAUKEE, WISCONSIN 53202

USE RED INK TO DO AS-BUILTS

RECORD RETENTION GUIDELINES:

* CONTRACTOR TO LOCATE AND CLEARLY DIMENSION ALL OF THERE NEWLY INSTALLED CONDUIT RUNS, FITTINGS, SPLICE VAULTS, PULL BOXES, METER PEDESTALS, CONCRETE BASES, TRANSFORMERS, POLES AND OTHER APPURTENANCES IN TWO (2) DIRECTIONS. SWING TIES SHOULD BE MADE FROM OBJECTS THAT ARE PERMANENT IN NATURE AND VISIBLE ON THE FINISHED SURFACE.
* STREET NAMES SHALL BE ON ALL SHEETS.
* SHOW ALL SIZES AND MATERIAL TYPES OF PIPES AND CONDUITS, IF CHANGED OR MODIFIED FROM ORGINAL DESIGN.
* ALL HORIZONTAL DISTANCES SHALL BE SHOWN TO THE NEAREST TENTH OF A FOOT (I.E., 205.3'). ALL VERTICAL DISTANCES SHALL BE SHOWN TO THE NEAREST INCH (I.E. 24").
* SHOW LOCATION AND ELEVATIONS OF PIPES AND FITTINGS WHERE CHANGES OR DEFLECTIONS IN DIRECTION OCCUR.
* SPECIAL DETAIL DRAWINGS WILL BE SUPPLIED WHERE REQUIRED FOR CLARITY.
* DEVIATIONS FROM ORIGINAL PLANS OR STANDARD DETAILS SHALL BE NOTED ON AS-BUILT DRAWINGS.
* IF THERE ARE NO CORRECTIONS OR ADDITIONS TO THE AS-LET PLAN(S) PUT "NO CHANGE" ON THE SHEET.

SUPERVISOR:_____
PROJECT MANAGER:_____
CONTRACTOR LEADER:_____
CONTRACTOR COMPANY:_____
WORK STARTED:_____
WORK COMPLETED:_____



FIELD RECORD EXAMPLE DETAIL NOT TO SCALE

TYPICAL DIMENSIONING OF CONDUIT, PULL BOXES, AND CONCRETE BASES

MEASURING GUIDE LINES

IF CONDUIT IS NOT PLACED DIRECTLY BEHIND THE CURB IN THE ISLANDS & SIDE TERRACE AREAS, A MEASURED DISTANCE FROM THE FACE OF CURB TO THE CONDUIT WILL NEED TO BE PROVIDED.

PROVIDE A MEASURED DISTANCE OF UNINTERRUPTED CONDUIT RUNS

USE PERMANENT OBJECTS LIKE HYDRANTS, CATCH BASINS, OR EVEN CURB FACE LINES EXTENED TO MEASURE OFF WHEN LOCATING CONDUIT, PULL BOXES AND CONCRETE BASES.

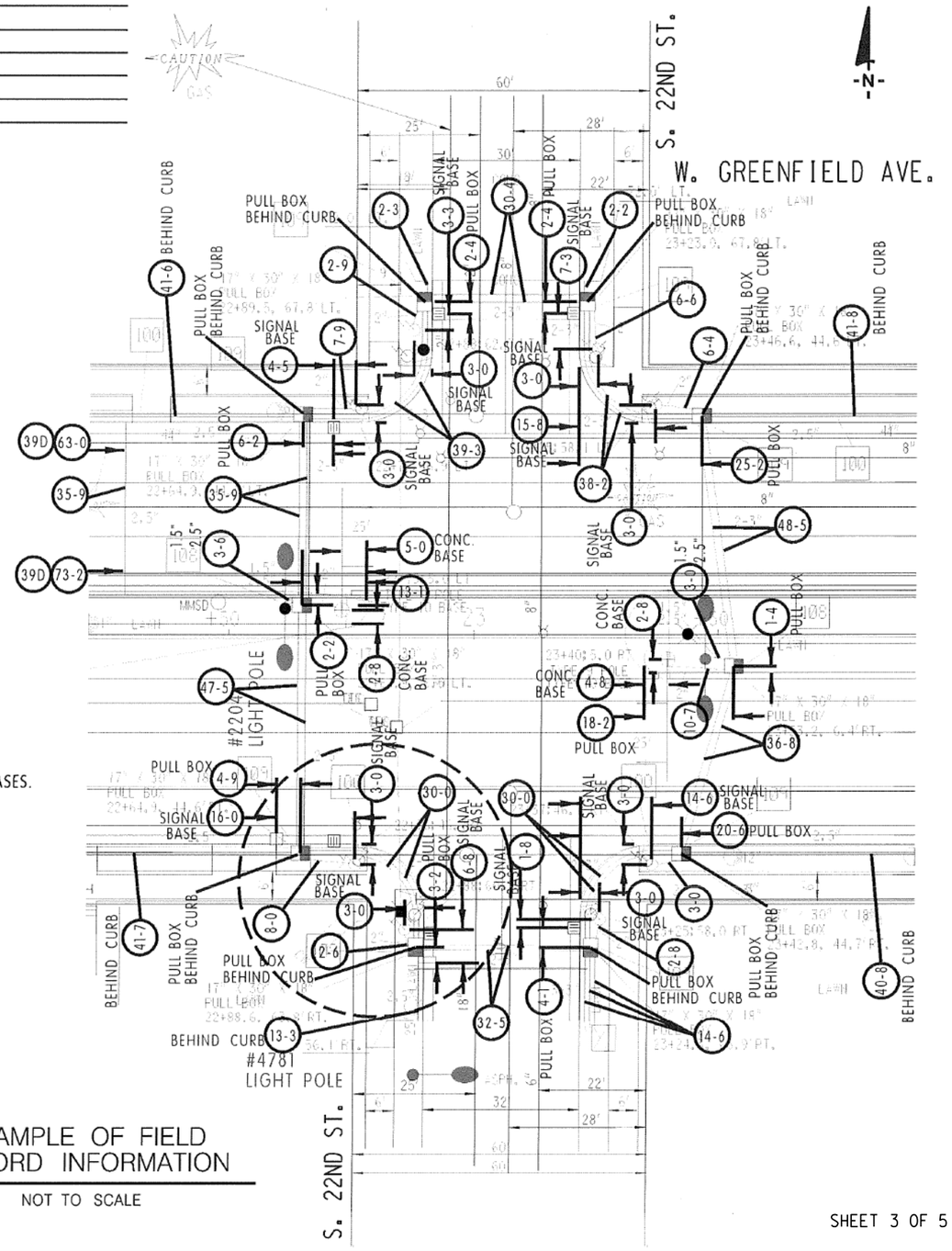
MEASURE TO OR FROM THE CENTERS OF OBJECTS FOR DISTANCE TAKING.

(39D) MEANS = CONDUIT IS 39" DEEP

(48-5) MEANS = LENGTH OF CONDUIT IS 48.5 FT. LONG (MEASURED TO NEAREST TENTH OF A FOOT)

OR

(25-6) MEANS = DISTANCE OF 25.6 FT. BETWEEN PERMANENT OBJECT OR CURB FACE TO CONDUIT, PULL BOX, AND CONCRETE BASE (MEASURED TO NEAREST TENTH OF A FOOT)

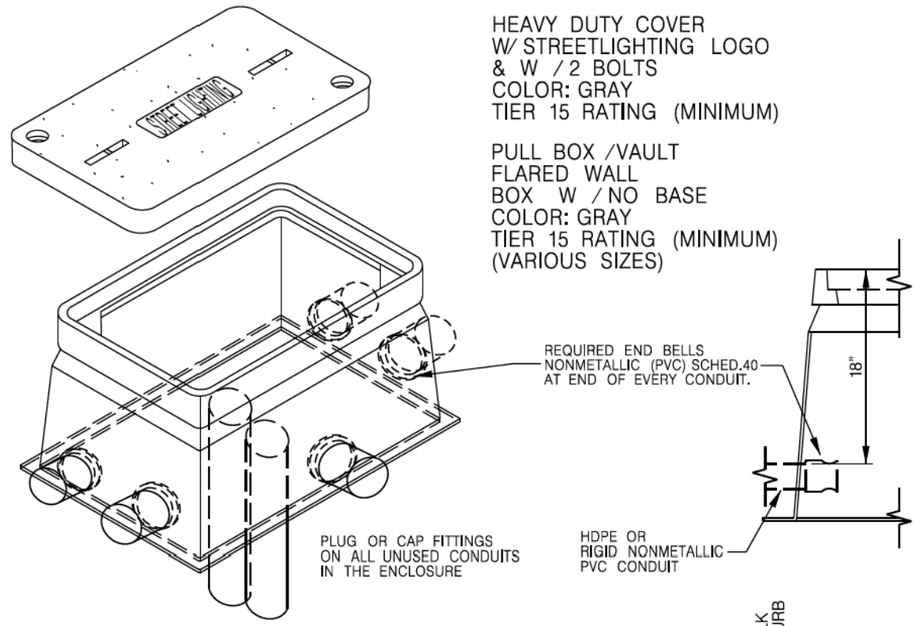


EXAMPLE OF FIELD RECORD INFORMATION

NOT TO SCALE

SHEET 3 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - GENERAL NOTES & DETAILS	SHEET 29	E



112 DETAIL

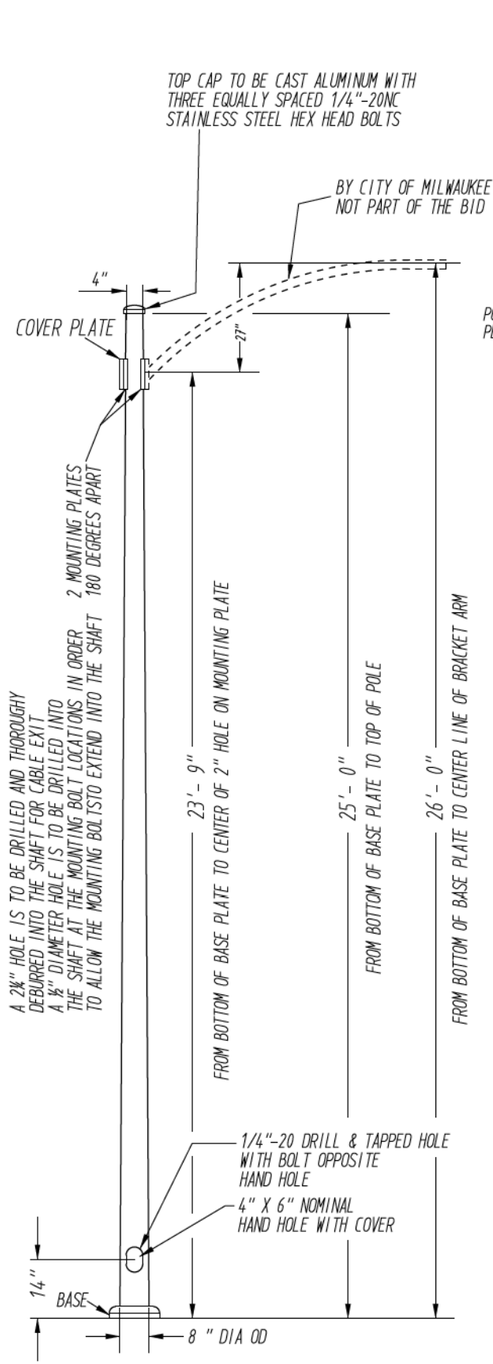
TYPICAL PULL BOX /VAULT INSTALLATION
IN EITHER PAVEMENT OR GRASS AREAS

ANY DEVIATIONS FROM DETAIL WILL REQUIRE PERMISSION FROM STREET LIGHTING FORCES.
CONTACT DISPATCHER AT (414) 286-5944 FOR THE APPROPRIATE SHOP SUPERVISOR.

NOT TO SCALE

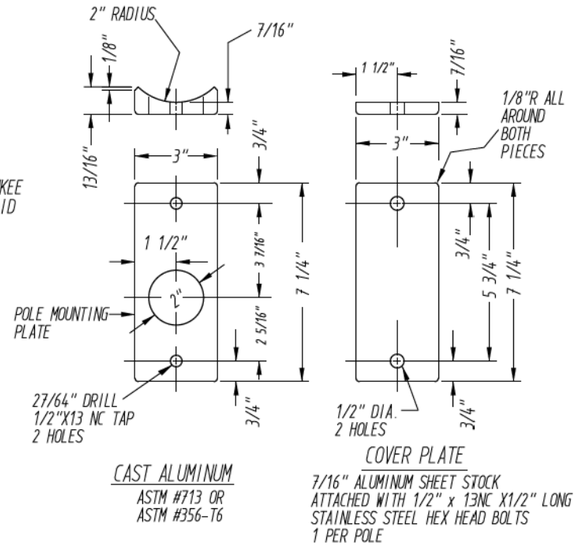
SHEET 4 OF 5

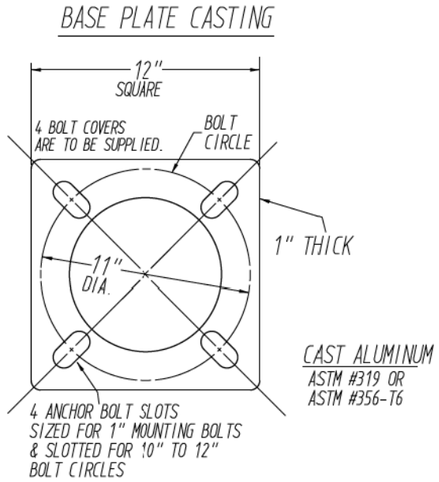
PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - GENERAL NOTES & DETAILS	SHEET 30	E



POLES TYPE 25-AL-BD

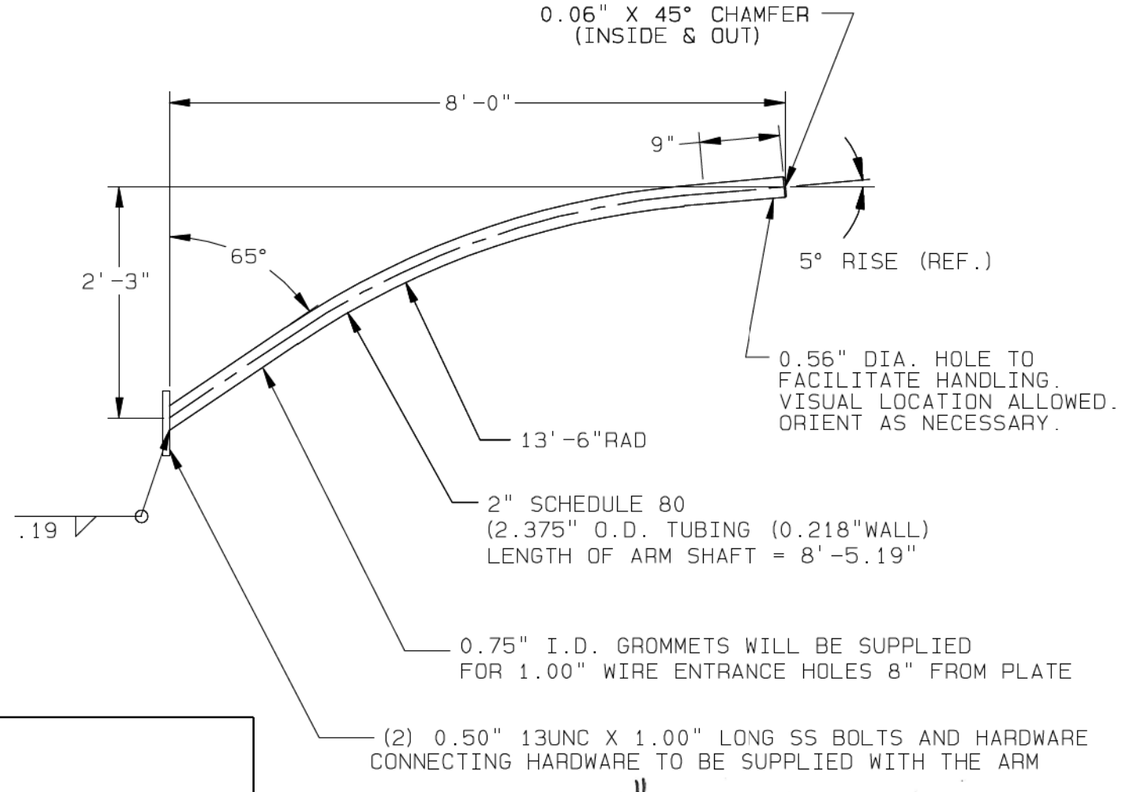
G:\Street Lighting Specs\Poles. Aluminum Bolt Down\B-14-13 26FT.dgn

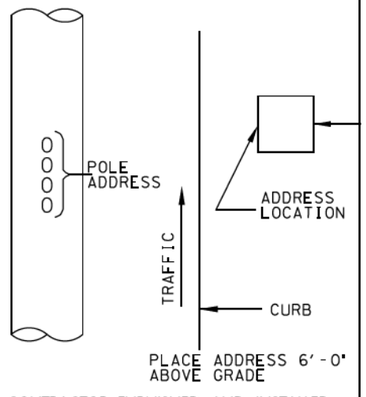




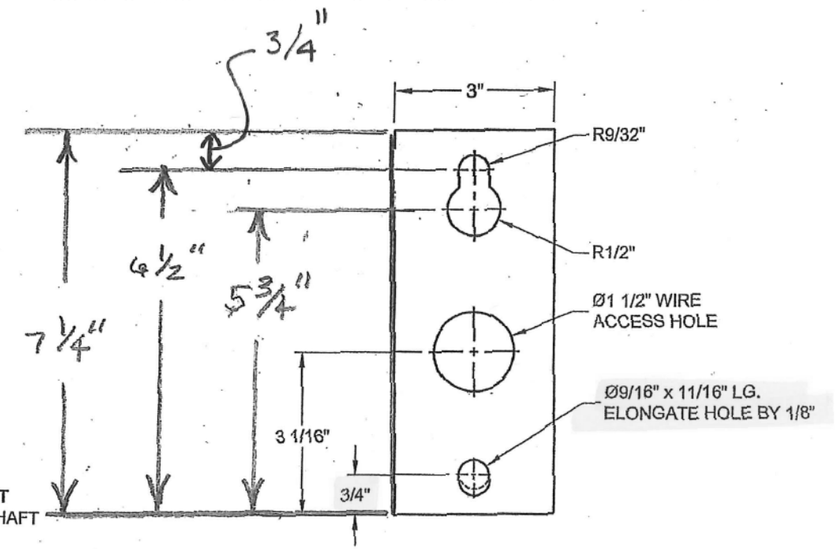
REVISED DATE:	REVISED BY:				
SPEC. NO. 12c-C-1					
BOLT DOWN ALUMINUM POLE 26 FOOT MOUNTING HEIGHT					
CITY OF MILWAUKEE D.P.W. TRANSPORTATION SECTION INFRASTRUCTURE SERVICES DIVISION					
STREET LIGHTING DIVISION					
DATE 11-14-14	SCALE: NONE	DRAWN DK	DESIGN BES	CHECKED	APPROVED
SUPERSEDES		DRG. # B-14-13			
SUPERSEDED BY					

LUMINAIRE ARMS SINGLE MEMBER 8-Ft.





CONTRACTOR FURNISHED AND INSTALLED



NOTE: 1" I.D. RUBBER GROMMET PROVIDED FOR USE IN POLE SHAFT

MOUNTING PLATE DETAIL

1/2" THK. ALUMINUM (6061-T6 ALLOY)

SHEET 5 OF 5

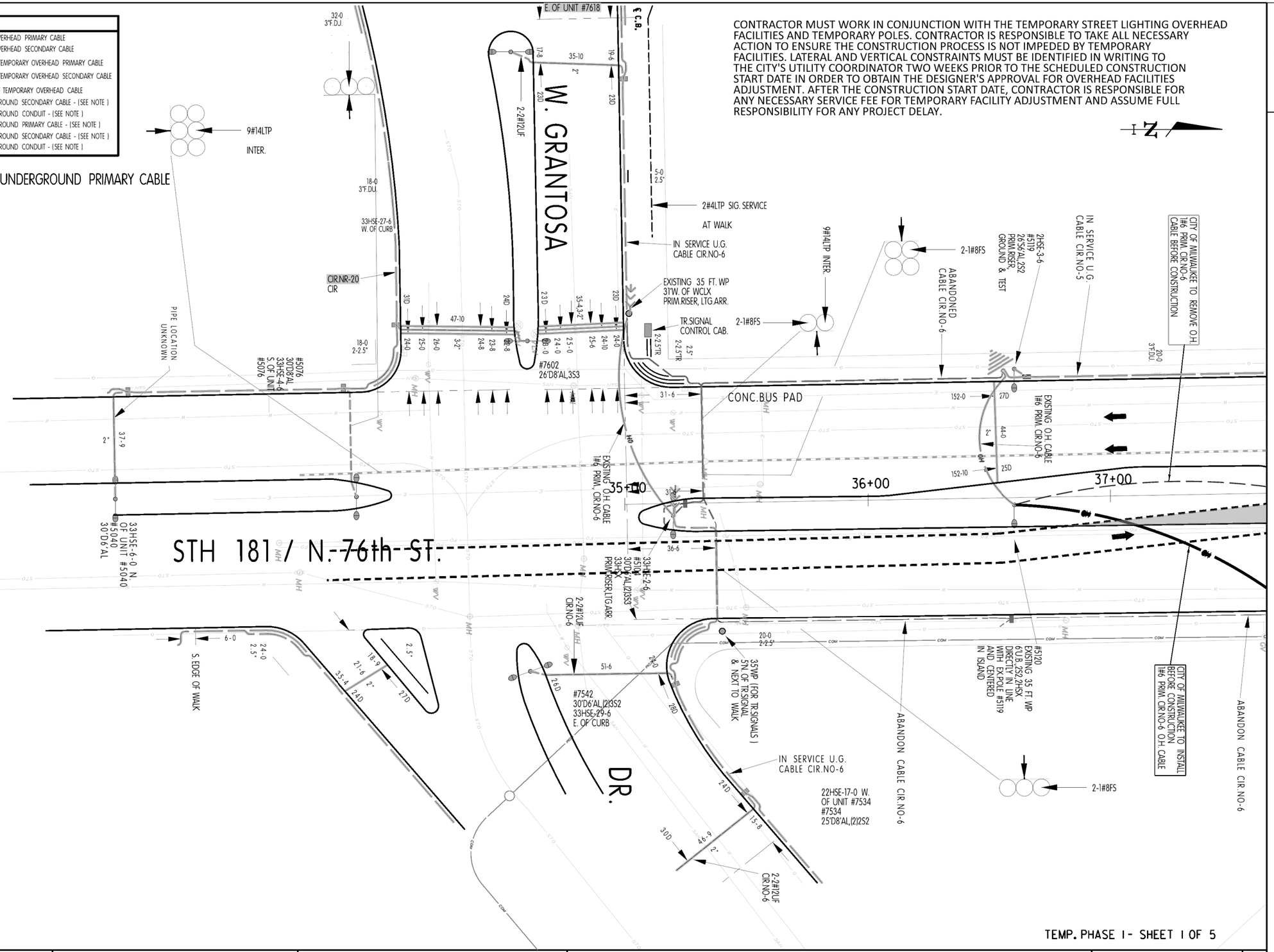
2

LEGEND

- EXISTING POLE
- EXISTING POLE WITH LIGHT
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- RELOCATE EXISTING POLE WITH LIGHT
- RELOCATED EXISTING POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- PROPOSED PULL BOX - (SEE NOTE)
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED TEMPORARY OVERHEAD PRIMARY CABLE
- PROPOSED TEMPORARY OVERHEAD SECONDARY CABLE
- REMOVAL OF TEMPORARY OVERHEAD CABLE
- PR. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- PR. UNDERGROUND CONDUIT - (SEE NOTE)
- EX. UNDERGROUND PRIMARY CABLE - (SEE NOTE)
- EX. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)

CONTRACTOR MUST WORK IN CONJUNCTION WITH THE TEMPORARY STREET LIGHTING OVERHEAD FACILITIES AND TEMPORARY POLES. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY ACTION TO ENSURE THE CONSTRUCTION PROCESS IS NOT IMPEDED BY TEMPORARY FACILITIES. LATERAL AND VERTICAL CONSTRAINTS MUST BE IDENTIFIED IN WRITING TO THE CITY'S UTILITY COORDINATOR TWO WEEKS PRIOR TO THE SCHEDULED CONSTRUCTION START DATE IN ORDER TO OBTAIN THE DESIGNER'S APPROVAL FOR OVERHEAD FACILITIES ADJUSTMENT. AFTER THE CONSTRUCTION START DATE, CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY SERVICE FEE FOR TEMPORARY FACILITY ADJUSTMENT AND ASSUME FULL RESPONSIBILITY FOR ANY PROJECT DELAY.

- EX. UNDERGROUND PRIMARY CABLE



TEMP. PHASE I - SHEET 1 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PROPOSED TEMPORARY PHASE I PLAN	SHEET 32	E

FILE NAME : W:\bes_WisDot\2022\(1360-13-70) Silver Spring Dr & 76th Over STH 145\SL Overhead & Underground\SL OH & UG Master.dgn
PLOT DATE : 19-APR-2022 15:21
PLOT BY : dkozel
PLOT NAME :
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 42

CONTRACTOR MUST WORK IN CONJUNCTION WITH THE TEMPORARY STREET LIGHTING OVERHEAD FACILITIES AND TEMPORARY POLES. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY ACTION TO ENSURE THE CONSTRUCTION PROCESS IS NOT IMPEDED BY TEMPORARY FACILITIES. LATERAL AND VERTICAL CONSTRAINTS MUST BE IDENTIFIED IN WRITING TO THE CITY'S UTILITY COORDINATOR TWO WEEKS PRIOR TO THE SCHEDULED CONSTRUCTION START DATE IN ORDER TO OBTAIN THE DESIGNER'S APPROVAL FOR OVERHEAD FACILITIES ADJUSTMENT. AFTER THE CONSTRUCTION START DATE, CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY SERVICE FEE FOR TEMPORARY FACILITY ADJUSTMENT AND ASSUME FULL RESPONSIBILITY FOR ANY PROJECT DELAY.

LEGEND

- EXISTING POLE
- EXISTING POLE WITH LIGHT
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- RELOCATE EXISTING POLE WITH LIGHT
- RELOCATED EXISTING POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- PROPOSED PULL BOX - (SEE NOTE)
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED TEMPORARY OVERHEAD PRIMARY CABLE
- PROPOSED TEMPORARY OVERHEAD SECONDARY CABLE
- REMOVAL OF TEMPORARY OVERHEAD CABLE
- PR. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- PR. UNDERGROUND CONDUIT - (SEE NOTE)
- EX. UNDERGROUND PRIMARY CABLE - (SEE NOTE)
- EX. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)

STH 181 / N. 76th ST.

W. VILLARD AV.

W. MEDFORD AVE

W. FOND DU LAC AVE.

38+00 39+00 40+00 41+00 42+00 43+00

9#14LTP INTER.

IN SERVICE U.G. CABLE CIR.NO-5

IN SERVICE U.G. CABLE CIR.NO-4

IN SERVICE U.G. CABLE CIR.NO-6

IN SERVICE U.G. CABLE CIR.NP-11

CONTRACTOR WILL NEED TO PLACE JERSEY BARRIER 1 FT. OFF POLE ON THE WEST SIDE

CONTRACTOR WILL NEED TO PLACE JERSEY BARRIER 1 FT. OFF POLE ON BOTH EAST AND WEST SIDES

CITY OF MILWAUKEE TO INSTALL 35 FT. WOOD POLE BEFORE CONSTRUCTION STA. 38+57.60'RT. 13.5'E. OF ECLX & 9.5'B.O.C.

CITY OF MILWAUKEE TO INSTALL 35 FT. WOOD POLE BEFORE CONSTRUCTION STA. 39+21.75'LT. 6.5'S. OF CARRIAGE WALK @#5153 AND 3 FT. B.O.C.

CITY OF MILWAUKEE TO INSTALL 35 FT. WOOD POLE 6 FT. BRACKET ARM, 2S2, 22HSX BEFORE CONSTRUCTION STA. 39+27.75'RT. 29'N. OF NCLX & 4.5'B.O.C.

CITY OF MILWAUKEE TO REMOVE 35 FT. WOOD POLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO REMOVE O.H. 1#6 PRIM. CIR.NP-11 CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO REMOVE O.H. 1#6 PRIM. CIR.NO-6 CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO REMOVE LIGHT POLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL BEFORE CONSTRUCTION 3#12 UF CIR.NO-6 O.H. CABLE

CITY OF MILWAUKEE TO INSTALL BEFORE CONSTRUCTION 1#6 PRIM. CIR.NO-6 O.H. CABLE

CITY OF MILWAUKEE TO INSTALL BEFORE CONSTRUCTION 1#6 PRIM. CIR.NP-11 O.H. CABLE

CITY OF MILWAUKEE TO INSTALL BEFORE CONSTRUCTION 1#6 PRIM. CIR.NO-4 O.H. CABLE

CITY OF MILWAUKEE TO REMOVE O.H. 1#6 PRIM. CIR.NP-11 CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO REMOVE O.H. 3#12UF CIR.NP-11 CABLE BEFORE CONSTRUCTION

ABANDON CABLE CIR.NO-4

ABANDON CABLE CIR.NP-11

EXISTING O.H. 1#6 PRIM., CIR.NP-11

EXISTING 35 FT. WP PRIM.RISER, LTG.ARR. 60'E.. OF ECLX

EXISTING 35 FT.WP 25'N.OF THE TITS OF WISDOT POLE AND 3'E OF WEST CURB OF ISLAND

EXISTING UG CABLE CIR.NP-11

35'WP PRIM.RISER, LTG.ARR. 48'W. OF WCLX

35'WP PRIM.RISER, LTG.ARR. 65'SE. OF ECLX OF N.76th ST.

35'WP 25'N.OF THE WISDOT LIGHT POLE AND CENTERED IN ISLAND

35'WP 2HSX PRIM.RISER 10'S OF UNIT #5214

CONC.BUS PAD

WISDOT POLE

#5148 26'D8'AL/2S2 2HSX

#5211 25'S6'AL/2S2 2HSE-3-6

#5214 26'S6'AL/2S2 2HSE-4-0

#7526 25'S6'AL 2HSE-4-0

#7533 A21-6,1S2V 1HSX PRIM.RISER LTG.ARR.

1HSE-4-0

2HSE-12-0 S OF UNIT #5148

33'HSE-4-10 N OF UNIT #5154

22HSE-9.0 W OF UNIT #5328

TEMP. PHASE I- SHEET 2 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PROPOSED TEMPORARY PHASE I PLAN	SHEET 33	E

CONTRACTOR MUST WORK IN CONJUNCTION WITH THE TEMPORARY STREET LIGHTING OVERHEAD FACILITIES AND TEMPORARY POLES. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY ACTION TO ENSURE THE CONSTRUCTION PROCESS IS NOT IMPEDED BY TEMPORARY FACILITIES. LATERAL AND VERTICAL CONSTRAINTS MUST BE IDENTIFIED IN WRITING TO THE CITY'S UTILITY COORDINATOR TWO WEEKS PRIOR TO THE SCHEDULED CONSTRUCTION START DATE IN ORDER TO OBTAIN THE DESIGNER'S APPROVAL FOR OVERHEAD FACILITIES ADJUSTMENT. AFTER THE CONSTRUCTION START DATE, CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY SERVICE FEE FOR TEMPORARY FACILITY ADJUSTMENT AND ASSUME FULL RESPONSIBILITY FOR ANY PROJECT DELAY.

STH 181 / N. 76th ST.

W. FOND DU LAC AVE.

W. CALDWELL AVE.

CONC. BUS PAD

EXISTING O.H. 2#12UF, CIR.NP-12

1#6 PRIM. CIR.NP-12

ABANDON U.G. CABLE 2-2#12UF

EXISTING U.G. CABLE CIR.NP-12

#7612 25'S6'AL,3M2 3MVACI-4-0

1ACI-60-0 W. OF CURB SHORTED TRANSFORMER

EXISTING 35 FT. WP PRIM.RISER 40'SE. OF UNIT #7612

2HSE-3-6 #5269 26'S6'AL252

ABANDON U.G. CABLE CIR.NP-12

"Y" SPLICE-15-0 N. OF UNIT

EXISTING O.H. CABLE 1#6 PRIM.,CIR.NP-11

ABANDON U.G. CABLE CIR.NP-11

EXISTING O.H. CABLE 3#12UF, CIR.NP-11

EXISTING 35 FT. WP 2#4SX, 2'S OF PIPE CROSSING

EXISTING O.H. CABLE 1#6 PRIM.,CIR.NP-11

EXISTING 35 FT. WP, PRIM.RISER, LTG.ARR. 9'S OF UNIT #5318 DIRECTLY ACROSS IN THE CENTER ISLAND

ABANDON U.G. CABLE CIR.NP-11

CITY OF MILWAUKEE TO INSTALL 1#6 PRIM. CIR.NP-9 CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL O.H. 1#6 PRIM. CIR.NP-11 CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL O.H. 1#6 PRIM. CIR.NP-9 CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL 1#6 PRIM. CIR.NO-4 O.H. CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL 35'WP. 33'S. OF HYDRANT BEFORE CONSTRUCTION

35'WP 2HSX PRIM.RISER 10'S OF UNIT #5214

CITY OF MILWAUKEE TO INSTALL 1#6 PRIM. CIR.NO-4 O.H. CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL 35'WP. 13'S.E. OF C/L OF CATCH BASIN BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL 1#6 PRIM. CIR.NO-4 O.H. CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL 1#6 PRIM. CIR.NP-11 CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL 35 FT. WOOD POLE, 6 FT. BRACKET ARM, 2S2.2HSX CITY OF MILWAUKEE TO INSTALL 35 FT. WOOD POLE, 6 FT. BRACKET ARM, 2S2.2HSX CITY OF MILWAUKEE TO INSTALL 35 FT. WOOD POLE, 6 FT. BRACKET ARM, 2S2.2HSX BEFORE CONSTRUCTION STA. 48+74.2'S0.51'T. DIRECTLY INLINE WITH UNIT #5302 IN ISLAND & 3 FT. B.O.C. HYDROVAC HOLE DUE TO NEARBY UTILITIES #5304

#5302 26'DB'AL@252 DIRECT BURY 7'W. OF EAST CURB LINE OF ISLAND

ABANDON U.G. CABLE CIR.NP-9

CITY OF MILWAUKEE TO REMOVE O.H. 1#6 PRIM. CIR.NP-9 CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL 35 FT. WOOD POLE BEFORE CONSTRUCTION STA. 49+88.8.55.41RT. 36.5'N. OF C/L OF CB. & DIRECTLY BEHIND BACKSIDE OF WALK HYDROVAC HOLE DUE TO NEARBY UTILITIES

CITY OF MILWAUKEE TO REMOVE POLE BEFORE CONSTRUCTION #5318 26'S8'AL@252 22HSE-3I-10 S. OF UNIT #5318

EXISTING U.G. CABLE CIR.NO-4

EXISTING U.G. CABLE CIR.NP-11 WHT WIRE
EX. U.G. CABLE CIR.NP-11 BLK WIRE
ONE OF THE CIRCUITS IS NOT IN SERVICE

UTILITY POLE PRIMARY RISER LTG.ARR.

EXISTING UG CABLE CIR.NP-11

EXISTING UG CABLE CIR.NP-9

CIR.NP-11

#7515 1HSE-3-6 WEP.CO. W.P. #61-5192 6-0 U.B.1S2V

EXISTING 35 FT. WP 2HSX ON CIR.NP-12 12PRIM.RISER, LTG.ARR. GROUND & TEST CENTERED IN ISLAND AT THE PIPE CROSSING

#5268 26'S6'AL252 PRIM.RISER, LTG.ARR. 2HSE-4-0

WISDOT POLE

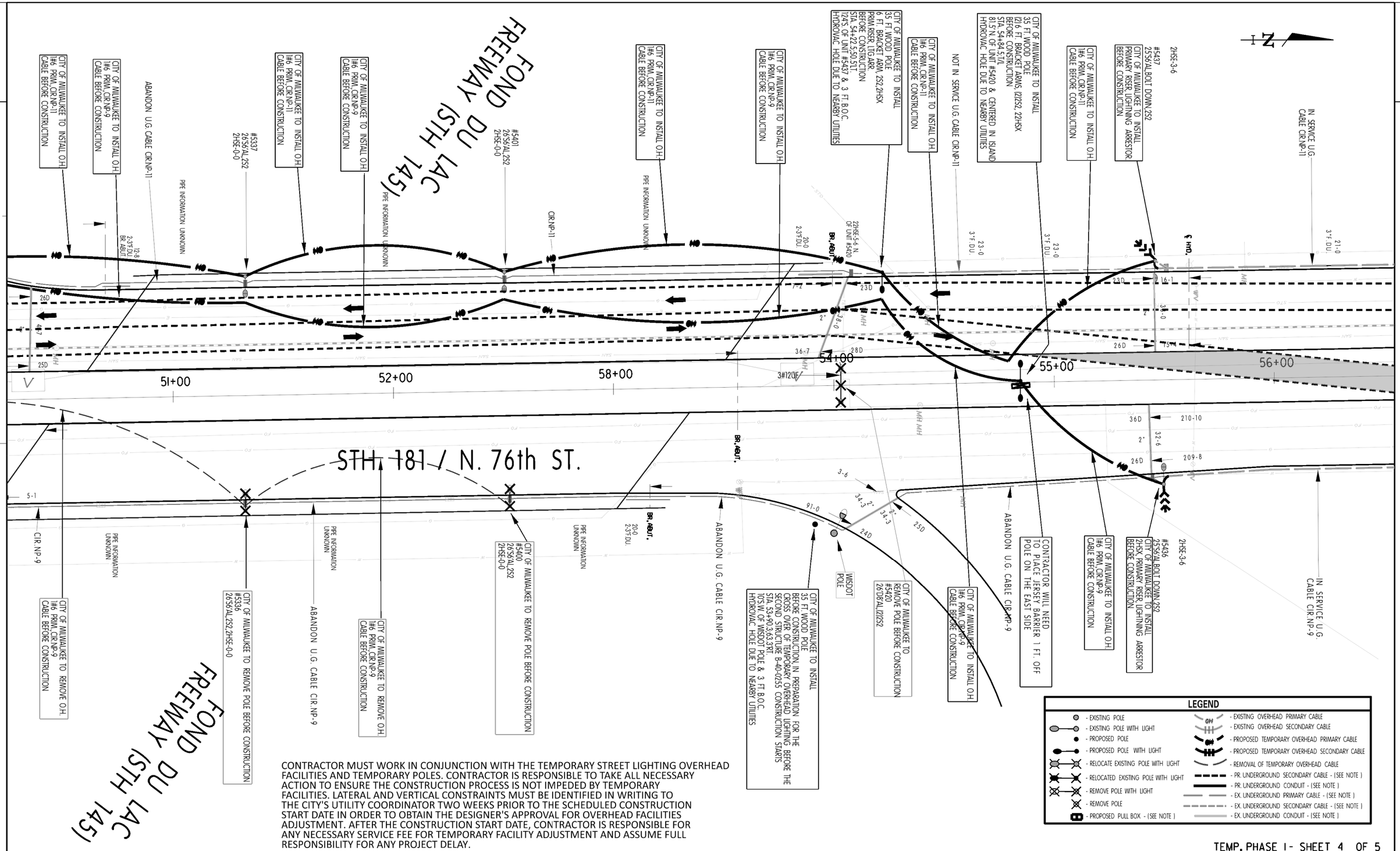
44+00 45+00 46+00 47+00 48+00 49+00 50+00

LEGEND

- EXISTING POLE
- EXISTING POLE WITH LIGHT
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- RELOCATE EXISTING POLE WITH LIGHT
- RELOCATED EXISTING POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- PROPOSED PULL BOX - (SEE NOTE)
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED TEMPORARY OVERHEAD PRIMARY CABLE
- PROPOSED TEMPORARY OVERHEAD SECONDARY CABLE
- REMOVAL OF TEMPORARY OVERHEAD CABLE
- PR. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- PR. UNDERGROUND CONDUIT - (SEE NOTE)
- EX. UNDERGROUND PRIMARY CABLE - (SEE NOTE)
- EX. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)

TEMP. PHASE I- SHEET 3 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PROPOSED TEMPORARY PHASE I PLAN	SHEET 34	E



TEMP. PHASE I - SHEET 4 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PROPOSED TEMPORARY PHASE I PLAN	SHEET 35	E

FILE NAME : W:\bes_WisDot\2022\(1360-13-70) Silver Spring Dr & 76th Over STH 145\SL Overhead & Underground\SL OH & UG Master.dgn
PLOT DATE : 19-APR-2022 15:24
PLOT BY : dkozel
PLOT NAME :
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 42

CONTRACTOR MUST WORK IN CONJUNCTION WITH THE TEMPORARY STREET LIGHTING OVERHEAD FACILITIES AND TEMPORARY POLES. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY ACTION TO ENSURE THE CONSTRUCTION PROCESS IS NOT IMPEDED BY TEMPORARY FACILITIES. LATERAL AND VERTICAL CONSTRAINTS MUST BE IDENTIFIED IN WRITING TO THE CITY'S UTILITY COORDINATOR TWO WEEKS PRIOR TO THE SCHEDULED CONSTRUCTION START DATE IN ORDER TO OBTAIN THE DESIGNER'S APPROVAL FOR OVERHEAD FACILITIES ADJUSTMENT. AFTER THE CONSTRUCTION START DATE, CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY SERVICE FEE FOR TEMPORARY FACILITY ADJUSTMENT AND ASSUME FULL RESPONSIBILITY FOR ANY PROJECT DELAY.

W. LEON TER.

STH 181 / N. 76th ST.

CONC.BUS PAD

57+00 58+00 59+00 60+00 61+00 62+00

2#8LTP CIR.N.S.MULT.#16

EXISTING 35 FT. WP. 32'S. OF SCLX. PRIM.RISER. LTG.ARR. CITY OF MILWAUKEE TO TRANSFER 22HSX BALLAST FROM CENTER ISLAND WP.

CITY OF MILWAUKEE TO INSTALL O.H. 3#12 UF W/GRD.,CIR.NP-11 APPROX.75 FT., COIL UP EXTRA CABLE AND ATTACHED TO WP. ITO BE USED LATER WHEN ISLAND IS REPLACED) CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO REMOVE O.H. 1#6 PRIM.,CIR.NP-11 CABLE BEFORE CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL O.H. 1#6 PRIM.,CIR.NP-11 APPROX.140 FT. CABLE BEFORE CONSTRUCTION

#7608 22'S6'AL 1S2V

ABANDON U.G. CABLE CIR.NP-11

CITY OF MILWAUKEE TO INSTALL 35 FT. WOOD POLE 2HSX ON CIR. NP-11 BEFORE CONSTRUCTION. STA. 58+59.53LT. 62'N. OF NCLX. HYDROVAC HOLE DUE TO NEARBY UTILITIES

CITY OF MILWAUKEE TO INSTALL O.H. 3#12 UF W/GRD.,CIR.NP-11 APPROX.35 FT., CABLE BEFORE CONSTRUCTION

#5475 25'S6'AL 2S2 BOLT DOWN 2HSE-3-6

CITY OF MILWAUKEE TO INSTALL O.H. 1#6 PRIM.,CIR.NP-11 APPROX.90 FT. CABLE BEFORE CONSTRUCTION

EXISTING 35 FT. WP 6'N. OF CENTER ISLAND EX.POLE PRIM.RISER. LTG.ARR.

IN SERVICE U.G. CABLE CIR.NP-11

#5513 25'S6'AL 2S2 BOLT DOWN 2HSE-3-6

ABANDON UG BALLAST 22HSE-29-0 S. OF CURB

#5531 35'WP. 36'S. OF SCLX 6'BRKT. 2S2. 2HSX PRIM.RISER LTG.ARR.

ABANDON CABLE CIR.NP-11 2-3#12UF

CONTRACTOR WILL NEED TO PLACE JERSEY BARRIER 1 FT. OFF POLE ON BOTH EAST AND WEST SIDES

#5454 35'WP. 12'6 U.B. 12DS2. 6'N. OF EX.POLE & CENTERED IN ISLAND CITY OF MILWAUKEE TO TRANSFER 22HSX BALLAST TO WP ALONG WEST CURB

IN SERVICE U.G. CABLE CIR.NP-9

PRIMARY SPLICE

IN SERVICE U.G. CABLE CIR.NP-9

CITY OF MILWAUKEE TO REMOVE O.H. 1#6 PRIM.,CIR.NP-11 CABLE BEFORE CONSTRUCTION

WISDOT POLE

CITY OF MILWAUKEE TO REMOVE POLE 35 FT WP 2HSX ON CIR.NP-11 BEFORE THE START OF CONSTRUCTION

CITY OF MILWAUKEE TO INSTALL 35 FT WOOD POLE BEFORE CONSTRUCTION. STA. 58+66.31Q.7.1T. 32'N. OF EX WP IN ISLAND & 5 FT. BACK OF CURB HYDROVAC HOLE DUE TO NEARBY UTILITIES

IN SERVICE U.G. CABLE CIR.NP-9

2-2#12UF

#5496 25'D8'AL 12DS2 BOLT DOWN

22HSE-6-0 S. OF UNIT #5496

IN SERVICE U.G. CABLE CIR.NP-9

#5512 25'S6'AL 2S2 BOLT DOWN 2HSE-3-6

CIR.NP-9

35'WP. 42'S. OF EX.WP.#5532 PRIM.RISER LTG.ARR.

1#6 PRIM. CIR.NP-9

#5532 35'WP. 6'BRKT. 2S2 2HSX PRIM.RISER

ABA UG BA 1HS

#75 A2 1HS PRI LTG

ABANDON UG CABLE 2-3#12UF

LEGEND

- EXISTING POLE
- EXISTING POLE WITH LIGHT
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- RELOCATE EXISTING POLE WITH LIGHT
- RELOCATED EXISTING POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- PROPOSED PULL BOX - (SEE NOTE)
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED TEMPORARY OVERHEAD PRIMARY CABLE
- PROPOSED TEMPORARY OVERHEAD SECONDARY CABLE
- REMOVAL OF TEMPORARY OVERHEAD CABLE
- PR. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- PR. UNDERGROUND CONDUIT - (SEE NOTE)
- EX. UNDERGROUND PRIMARY CABLE - (SEE NOTE)
- EX. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)

TEMP. PHASE I - SHEET 5 OF 5

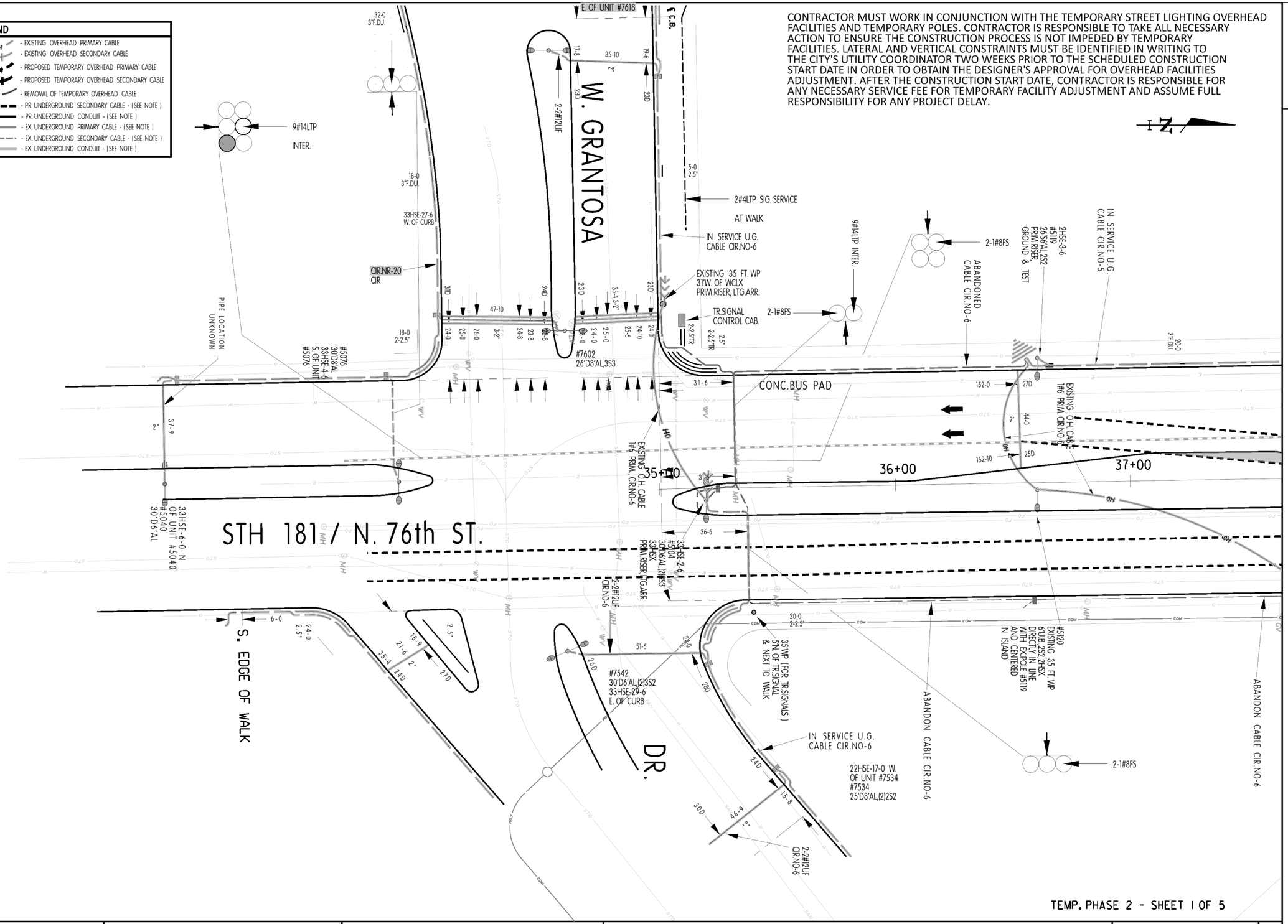
PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PROPOSED TEMPORARY PHASE I PLAN	SHEET 36	E

2

LEGEND

- EXISTING POLE
- EXISTING POLE WITH LIGHT
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- RELOCATE EXISTING POLE WITH LIGHT
- RELOCATED EXISTING POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- PROPOSED PULL BOX - (SEE NOTE)
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED TEMPORARY OVERHEAD PRIMARY CABLE
- PROPOSED TEMPORARY OVERHEAD SECONDARY CABLE
- REMOVAL OF TEMPORARY OVERHEAD CABLE
- PR. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- PR. UNDERGROUND CONDUIT - (SEE NOTE)
- EX. UNDERGROUND PRIMARY CABLE - (SEE NOTE)
- EX. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)

CONTRACTOR MUST WORK IN CONJUNCTION WITH THE TEMPORARY STREET LIGHTING OVERHEAD FACILITIES AND TEMPORARY POLES. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY ACTION TO ENSURE THE CONSTRUCTION PROCESS IS NOT IMPEDED BY TEMPORARY FACILITIES. LATERAL AND VERTICAL CONSTRAINTS MUST BE IDENTIFIED IN WRITING TO THE CITY'S UTILITY COORDINATOR TWO WEEKS PRIOR TO THE SCHEDULED CONSTRUCTION START DATE IN ORDER TO OBTAIN THE DESIGNER'S APPROVAL FOR OVERHEAD FACILITIES ADJUSTMENT. AFTER THE CONSTRUCTION START DATE, CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY SERVICE FEE FOR TEMPORARY FACILITY ADJUSTMENT AND ASSUME FULL RESPONSIBILITY FOR ANY PROJECT DELAY.



TEMP. PHASE 2 - SHEET 1 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PROPOSED TEMPORARY PHASE 2 PLAN	SHEET 37	E

FILE NAME : W:\bes_WisDot\2022\(1360-13-70) Silver Spring Dr & 76th Over STH 145\SL Overhead & Underground\SL OH & UG Master.dgn
PLOT DATE : 19-APR-2022 15:25
PLOT BY : dkozel
PLOT NAME :
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 42

CONTRACTOR MUST WORK IN CONJUNCTION WITH THE TEMPORARY STREET LIGHTING OVERHEAD FACILITIES AND TEMPORARY POLES. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY ACTION TO ENSURE THE CONSTRUCTION PROCESS IS NOT IMPEDED BY TEMPORARY FACILITIES. LATERAL AND VERTICAL CONSTRAINTS MUST BE IDENTIFIED IN WRITING TO THE CITY'S UTILITY COORDINATOR TWO WEEKS PRIOR TO THE SCHEDULED CONSTRUCTION START DATE IN ORDER TO OBTAIN THE DESIGNER'S APPROVAL FOR OVERHEAD FACILITIES ADJUSTMENT. AFTER THE CONSTRUCTION START DATE, CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY SERVICE FEE FOR TEMPORARY FACILITY ADJUSTMENT AND ASSUME FULL RESPONSIBILITY FOR ANY PROJECT DELAY.

LEGEND

- EXISTING POLE
- EXISTING POLE WITH LIGHT
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- RELOCATE EXISTING POLE WITH LIGHT
- RELOCATED EXISTING POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- PROPOSED PULL BOX - (SEE NOTE)
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED TEMPORARY OVERHEAD PRIMARY CABLE
- PROPOSED TEMPORARY OVERHEAD SECONDARY CABLE
- REMOVAL OF TEMPORARY OVERHEAD CABLE
- PR. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- PR. UNDERGROUND CONDUIT - (SEE NOTE)
- EX. UNDERGROUND PRIMARY CABLE - (SEE NOTE)
- EX. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)

STH 181 / N.76th ST.

W. VILLARD AV.

W. MEDFORD AVE

W. FOND DU LAC AVE.

9#14LTP INTER.

IN SERVICE U.G. CABLE CIR.NO-5

EXISTING JERSEY BARRIER

EXISTING 35 FT. WP STA. 38+53;62.3'RT. 16'E. OF ECLX & 5'B.O.C.

EXISTING 35 FT. WP 6 FT. BRACKET ARM, 2S2 STA. 39+27.75'LT. 6'S.OF CARRIAGE WALK @#5153 AND 3' FT. B.O.C.

EXISTING 35 FT. WP 6 FT. BRCKET ARM, 2S2, 2HSX STA. 39+27.75'RT. 79'N. OF NCLX & 4.5'B.O.C.

EXISTING 35 FT. WP PRIM.RISER, LTG.ARR. 60'E.. OF ECLX

EXISTING 35 FT. WP STA. 40+53;62.3'RT. 16'E. OF ECLX & 5'B.O.C.

EXISTING 35 FT. WP 6 FT. BRACKET ARM, 2S2, 2HSX STA. 41+27.75'RT. 79'N. OF NCLX & 4.5'B.O.C.

EXISTING 35 FT. WP PRIM.RISER, LTG.ARR. 60'E.. OF ECLX

EXISTING JERSEY BARRIERS

EXISTING 35 FT. WP

EXISTING O.H. 1#6 PRIM., CIR.NP-11

EXISTING O.H. CABLE 1#6 PRIM. CIR.NP-11

EXISTING 1#6 PRIM. CIR.NO-6

O.H. CABLE 1#6 PRIM. CIR.NP-11

EXISTING UG CABLE CIR.NP-11

ABANDON CABLE CIR.NP-11

ABANDON CABLE CIR.NO-4

IN SERVICE U.G. CABLE CIR.NO-4

IN SERVICE U.G. CABLE CIR.NP-11

IN SERVICE U.G. CABLE CIR.NO-6

35'WP PRIM.RISER, LTG.ARR. 48'W. OF WCLX

35'WP PRIM.RISER, LTG.ARR. 65'SE. OF ECLX OF N.76th ST.

35'WP 2HSX PRIM.RISER 10'S OF UNIT #5214

35'WP 25'N OF THE WISDOT LIGHT POLE AND CENTERED IN ISLAND

WISDOT POLE

CONC.BUS PAD

#5148 26'DBAL,2S2 22HSX

#5211 25'S6'AL,2S2 2HSE-3-6

#5214 25'S6'AL,2S2 2HSE-4-0

#7526 25'S6'AL 2HSE-4-0

#7533 A21-6,1S2V 1HSX PRIM.RISER LTG.ARR.

1HSE-4-0 #7533 A21-6,1S2V 1HSX PRIM.RISER LTG.ARR.

22HSE-12-0 S OF UNIT #5148

22HSE-9-0 W OF UNIT #7528

33HSE-4-10 N OF UNIT #5154

38+00 39+00 40+00 41+00 42+00 43+00

TEMP. PHASE 2 - SHEET 2 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PROPOSED TEMPORARY PHASE 2 PLAN	SHEET 38	E

2

LEGEND

- EXISTING POLE
- EXISTING POLE WITH LIGHT
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- RELOCATE EXISTING POLE WITH LIGHT
- RELOCATED EXISTING POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- PROPOSED PULL BOX - (SEE NOTE)
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED TEMPORARY OVERHEAD PRIMARY CABLE
- PROPOSED TEMPORARY OVERHEAD SECONDARY CABLE
- REMOVAL OF TEMPORARY OVERHEAD CABLE
- PR. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- PR. UNDERGROUND CONDUIT - (SEE NOTE)
- EX. UNDERGROUND PRIMARY CABLE - (SEE NOTE)
- EX. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)

W. FOND DU LAC AVE.

STH 181 / N. 76th ST.

W. CALDWELL AVE.

CONC.BUS PAD

EXISTING U.G. CABLE CIR.NP-12

EXISTING O.H. 2#12UF, CIR.NP-12

ABANDON U.G. CABLE CIR.NP-11

ABANDON U.G. CABLE CIR.NP-12

ABANDON U.G. CABLE CIR.NP-9

EXISTING U.G. CABLE CIR.NP-11

EXISTING U.G. CABLE CIR.NP-9

EX. UG CABLE CIR.NP-11 WHT WIRE
EX. UG CABLE CIR.NP-11 BLK WIRE
ONE OF THE CIRCUITS IS NOT IN SERVICE

#7612
25'S6'AL,3M2
3MVACI-4-0

#7515
1HSE-3-6
WEP.CO.
W.P. #61-5192
6-0 U.B.152V

#5268
26'S6'AL 252
PRIM.RISER, LTG.ARR.
2HSE-4-0

#5269
26'S6'AL252

#5302
26'D6'AL252, DIRECT BURY

#5304
CITY OF MILWAUKEE TO INSTALL
35 FT. WOOD POLE, 6 FT. BRACKET ARM, 2S2,2HSX

1ACI-60-0
W. OF CURB
SHORTED TRANSFORMER

EXISTING 35 FT. WP
PRIM.RISER
40'SE. OF UNIT #7612

EXISTING 35 FT. WP
PRIMARY RISER
LIGHTNING ARRESTOR

UTILITY POLE
PRIMARY RISER
LTG.ARR.

EXISTING 35 FT. WP
PRIM.RISER, LTG.ARR.
GROUND & TEST CENTERED IN ISLAND
AT THE PIPE CROSSING

35 FT. WOOD POLE TO REMAIN

CITY OF MILWAUKEE TO REMOVE O.H. CABLE 3#12UF, CIR.NP-11 AFTER STRUCTURE B-40-0256 IS COMPLETED AND BEFORE THE START OF CONSTRUCTION ON STRUCTURE B-40-0255

CITY OF MILWAUKEE TO REMOVE O.H. CABLE 1#6 PRIM.CIR.NP-11 AFTER STRUCTURE B-40-0256 IS COMPLETED AND BEFORE THE START OF CONSTRUCTION ON STRUCTURE B-40-0255

CITY OF MILWAUKEE TO REMOVE O.H. CABLE 1#6 PRIM.CIR.NP-9 AFTER STRUCTURE B-40-0256 IS COMPLETED AND BEFORE THE START OF CONSTRUCTION ON STRUCTURE B-40-0255

CITY OF MILWAUKEE TO INSTALL O.H. CABLE 1#6 PRIM.CIR.NP-11 AFTER STRUCTURE B-40-0256 IS COMPLETED AND BEFORE THE START OF CONSTRUCTION ON STRUCTURE B-40-0255

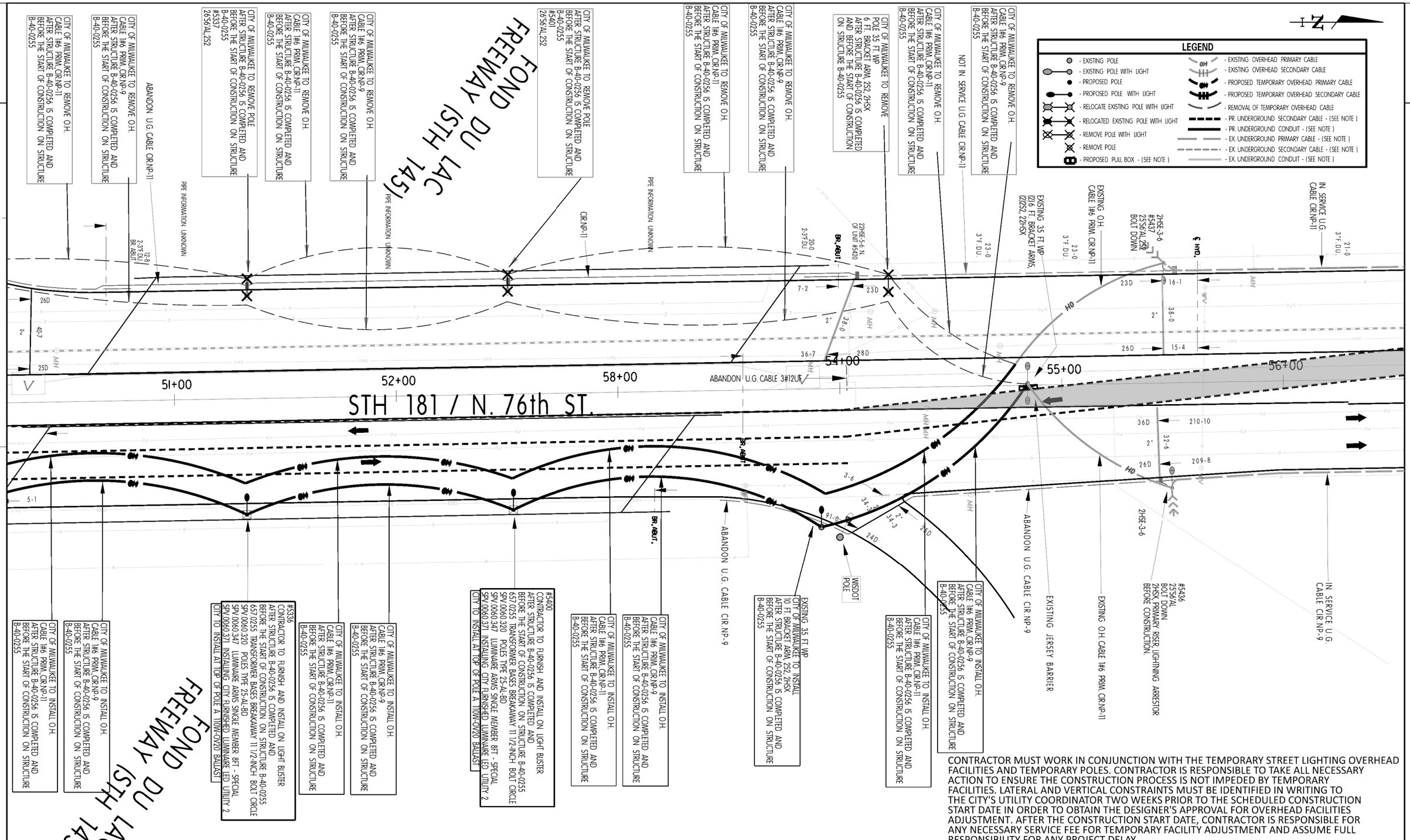
CITY OF MILWAUKEE TO INSTALL O.H. CABLE 1#6 PRIM.CIR.NP-9 AFTER STRUCTURE B-40-0256 IS COMPLETED AND BEFORE THE START OF CONSTRUCTION ON STRUCTURE B-40-0255

CITY OF MILWAUKEE TO INSTALL 35 FT. WOOD POLE AFTER STRUCTURE B-40-0256 IS COMPLETED AND BEFORE THE START OF CONSTRUCTION ON STRUCTURE B-40-0255 STA. 49+89.55 RT

CONTRACTOR MUST WORK IN CONJUNCTION WITH THE TEMPORARY STREET LIGHTING OVERHEAD FACILITIES AND TEMPORARY POLES. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY ACTION TO ENSURE THE CONSTRUCTION PROCESS IS NOT IMPEDED BY TEMPORARY FACILITIES. LATERAL AND VERTICAL CONSTRAINTS MUST BE IDENTIFIED IN WRITING TO THE CITY'S UTILITY COORDINATOR TWO WEEKS PRIOR TO THE SCHEDULED CONSTRUCTION START DATE IN ORDER TO OBTAIN THE DESIGNER'S APPROVAL FOR OVERHEAD FACILITIES ADJUSTMENT. AFTER THE CONSTRUCTION START DATE, CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY SERVICE FEE FOR TEMPORARY FACILITY ADJUSTMENT AND ASSUME FULL RESPONSIBILITY FOR ANY PROJECT DELAY.

TEMP. PHASE 2 - SHEET 3 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PROPOSED TEMPORARY PHASE 2 PLAN	SHEET 39	E



TEMP. PHASE 2 - SHEET 4 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PROPOSED TEMPORARY PHASE 2 PLAN	SHEET 40	E

CONTRACTOR MUST WORK IN CONJUNCTION WITH THE TEMPORARY STREET LIGHTING OVERHEAD FACILITIES AND TEMPORARY POLES. CONTRACTOR IS RESPONSIBLE TO TAKE ALL NECESSARY ACTION TO ENSURE THE CONSTRUCTION PROCESS IS NOT IMPEDED BY TEMPORARY FACILITIES. LATERAL AND VERTICAL CONSTRAINTS MUST BE IDENTIFIED IN WRITING TO THE CITY'S UTILITY COORDINATOR TWO WEEKS PRIOR TO THE SCHEDULED CONSTRUCTION START DATE IN ORDER TO OBTAIN THE DESIGNER'S APPROVAL FOR OVERHEAD FACILITIES ADJUSTMENT. AFTER THE CONSTRUCTION START DATE, CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY SERVICE FEE FOR TEMPORARY FACILITY ADJUSTMENT AND ASSUME FULL RESPONSIBILITY FOR ANY PROJECT DELAY.

W. LEON TER.

STH 181 / N. 76th ST.

CONC.BUS PAD

ABANDON CABLE CIR.NP-11 2-3#12UF

ABANDON UG CABLE 2-3#12UF

2-2#12UF

ABANDON UG BALLAST 22HSE-29-0 S. OF CURB

#5531 35'WP. 36'S. OF SCLX 6'BRKT 2S2 2HSX PRIM.RISER LTG.ARR.

#5513 25'S6'AL2S2 BOLT DOWN 2HSE-3-6

#5475 25'S6'AL2S2 BOLT DOWN 2HSE-3-6

#5496 25'D8'AL@2S2 BOLT DOWN

#5532 35'WP. 42'S. OF EX.WP.#5532 PRIM.RISER LTG.ARR.

#5512 25'S6'AL2S2 BOLT DOWN 2HSE-3-6

#5454 35'WP. @216' U.B.@2S2, 22HSX 6'N. OF EX.POLE & CENTERED IN ISLAND

#7608 22'S6'AL 1S2V

2#8LTP CIR.N.S.MULT.#16

EXISTING 35 FT WP. 32'S. OF SCLX, PRIM.RISER, LTG.ARR.

EXISTING O.H. 3#12 UF W/GRD.,CIR.NP-11

EXISTING O.H. 1#6 PRIM.,CIR.NP-11

ABANDON U.G.CABLE CIR.NP-11

EXISTING 35 FT WOOD POLE 2HSX ON CIR.NP-11

EXISTING O.H. 3#2 UF W/GRD.,CIR.NP-11

EXISTING O.H. 1#6 PRIM.,CIR.NP-11

EXISTING 35 FT WP. 6'N. OF CENTER ISLAND EX.POLE PRIM.RISER, LTG.ARR.

IN SERVICE U.G. CABLE CIR.NP-11

CIR.NP-11

CIR.NP-11

1#6 PRIM. CIR.NP-11

22HSE-6-0 S. OF UNIT #5496

CIR.NP-9

1#6 PRIM. CIR.NP-9

IN SERVICE U.G. CABLE CIR.NP-9

IN SERVICE U.G. CABLE CIR.NP-9

EXISTING 35 FT.WOOD POLE

IN SERVICE U.G. CABLE CIR.NP-9

PRIMARY SPLICE

EXISTING JERSEY BARRIERS

WISDOT POLE

IN SERVICE U.G. CABLE CIR.NP-9

57+00 58+00 59+00 60+00 61+00 62+00

LEGEND

- EXISTING POLE
- EXISTING POLE WITH LIGHT
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- RELOCATE EXISTING POLE WITH LIGHT
- RELOCATED EXISTING POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- PROPOSED PULL BOX - (SEE NOTE)
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED TEMPORARY OVERHEAD PRIMARY CABLE
- PROPOSED TEMPORARY OVERHEAD SECONDARY CABLE
- REMOVAL OF TEMPORARY OVERHEAD CABLE
- PR. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- PR. UNDERGROUND CONDUIT - (SEE NOTE)
- EX. UNDERGROUND PRIMARY CABLE - (SEE NOTE)
- EX. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)

TEMP. PHASE 2 - SHEET 5 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PROPOSED TEMPORARY PHASE 2 PLAN	SHEET 41	E

FILE NAME : W:\bes_WisDot\2022\(1360-13-70) Silver Spring Dr & 76th Over STH 145\SL Overhead & Underground\SL OH & UG Master.dgn PLOT DATE : 19-APR-2022 15:29 PLOT BY : dkozel PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING POLE
- EXISTING POLE WITH LIGHT
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- RELOCATE EXISTING POLE WITH LIGHT
- RELOCATED EXISTING POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- PROPOSED PULL BOX - (SEE NOTE)
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED TEMPORARY OVERHEAD PRIMARY CABLE
- PROPOSED TEMPORARY OVERHEAD SECONDARY CABLE
- REMOVAL OF TEMPORARY OVERHEAD CABLE
- PR. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- PR. UNDERGROUND CONDUIT - (SEE NOTE)
- EX. UNDERGROUND PRIMARY CABLE - (SEE NOTE)
- EX. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)

STH 181 / N. 76th ST.

W. GRANTOSA DR.

S. EDGE OF WALK

9#14LTP INTER.

#7618
A26-D8,(2)2S2
22HSE-12-0
E. OF UNIT #7618

2-2#12UF

#7602
26'D8'AL,3S3

#5076
30'D8'AL
33HSE-4-6
S. OF UNIT #5076

PIPE LOCATION UNKNOWN

33HSE-6-0 N. OF UNIT #5040
30'D6'AL

CIR.NR-20 CIR

2#4LTP SIG. SERVICE AT WALK

IN SERVICE U.G. CABLE CIR.NO-6

EXISTING 35 FT. WP 31'W. OF WCLX PRIM.RISER, LTG.ARR.

TR.SIGNAL CONTROL CAB.

#5106
654.0105 CONCRETE BASES TYPE 5 (WISDOT) STA.35+24.8', 4.9'RT
657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE
SPV.0060.320 POLES TYPE 25-AL-BD
SPV.0060.347 TWO (2) - LUMINAIRE ARMS SINGLE MEMBER 8-FT. - SPECIAL
SPV.0060.371 TWO (2) - INSTALLING CITY FURNISHED LUMINAIRE LED UTILITY 2

652.0615 CONDUIT SPECIAL 3-INCH

9#14LTP INTER.

2-1#8FS

ABANDONED CABLE CIR.NO-6

2#SE-3-6
#5119
26'S6'AL,2S2
PRIM.RISER,
GROUND & TEST

IN SERVICE U.G. CABLE CIR.NO-5

652.0615 CONDUIT SPECIAL 3-INCH

CONC.BUS PAD

EXISTING O.H. CABLE 1#6 PRIM. CIR.NO-6

#5120
EXISTING 35 FT. WP
6'U.B.,2S2,2HSX

#5104
30'D6'AL,2I3S3
33HSX
PRIM.RISER,LTG.ARR.

33HSE-2-6

2-2#12UF CIR.NO-6

#7542
30'D6'AL,2I3S2
33HSE-29-6
E. OF CURB

#5118
654.0105 CONCRETE BASES TYPE 5 (WISDOT) STA.36+49.8', 3'RT
657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE
SPV.0060.320 POLES TYPE 25-AL-BD
SPV.0060.347 TWO (2) - LUMINAIRE ARMS SINGLE MEMBER 8-FT. - SPECIAL
SPV.0060.371 TWO (2) - INSTALLING CITY FURNISHED LUMINAIRE LED UTILITY 2

652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH STA.35+35.5',5RT

35'W.P (FOR TR.SIGNALS) 5'N. OF TR.SIGNAL & NEXT TO WALK

ABANDON CABLE CIR.NO-6

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH STA.36+41.1',7'L

652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

IN SERVICE U.G. CABLE CIR.NO-6

22HSE-17-0 W. OF UNIT #7534
#7534
25'D8'AL,(2)2S2

2-1#8FS

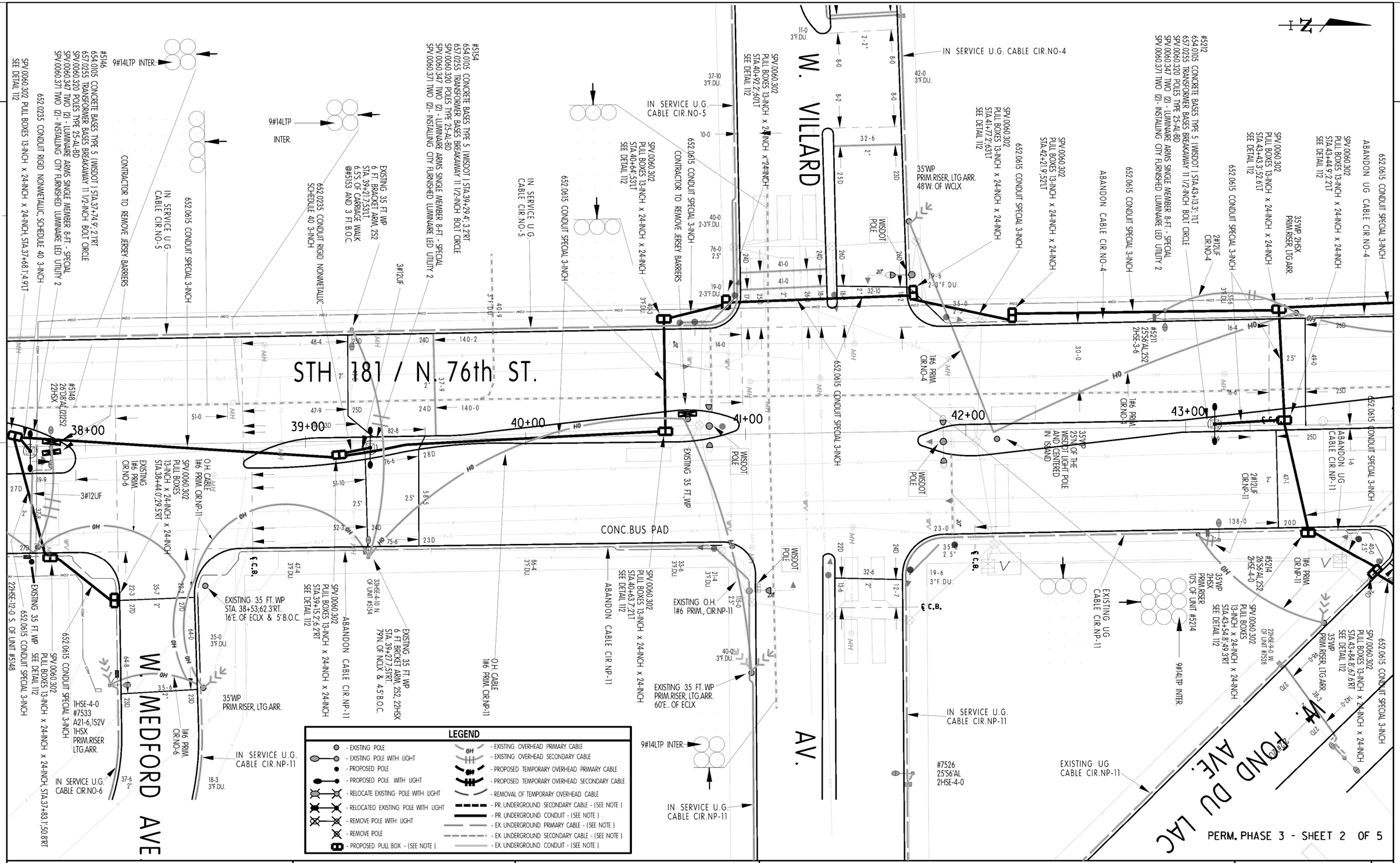
ABANDON CABLE CIR.NO-6

2-2#12UF CIR.NO-6

35+00 36+00 37+00

PERM. PHASE 3 - SHEET 1 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PERMANENT UNDERGROUND	SHEET 42	E



PERM. PHASE 3 - SHEET 2 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PERMANENT UNDERGROUND	SHEET 43	E

FILE NAME : W:\bes_WisDot\2022\(1360-13-70) Silver Spring Dr & 76th Over STH 145\SL Overhead & Underground\SL OH & UG Master.dgn PLOT DATE : 19-APR-2022 15:30 PLOT BY : dkozel PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

STH 181 / N. 76th ST.

W. FOND DU LAC AVE.

W. CALDWELL AVE.

VACATED

EXISTING U.G. CABLE CIR.NP-12

EXISTING O.H. 2#12UF, CIR.NP-12

EXISTING UG CABLE CIR.NP-11

EXISTING UG CABLE CIR.NP-9

ABANDON U.G. CABLE CIR.NP-11

ABANDON U.G. CABLE CIR.NP-9

ABANDON U.G. CABLE CIR NO-4

ABANDON U.G. CABLE CIR.NP-1

652.0615 CONDUIT SPECIAL 3-INCH

652.0230 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH

652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH x 24-INCH

SPV.0060.302 PULL BOXES
13-INCH x 24-INCH x 24-INCH
STA.46+40.1';167.8'LT
SEE DETAIL 112

SPV.0060.302 PULL BOXES
13-INCH x 24-INCH x 24-INCH
STA.46+93.5';105.1'LT
SEE DETAIL 112

SPV.0060.302 PULL BOXES
13-INCH x 24-INCH x 24-INCH
STA.46+75.9';61.8'LT
SEE DETAIL 112

SPV.0060.302 PULL BOXES
13-INCH x 24-INCH x 24-INCH
STA.45+15';58.8'LT

SPV.0060.302 PULL BOXES
13-INCH x 24-INCH x 24-INCH
STA.44+44.0';29.5'RT
SEE DETAIL 112

SPV.0060.302 PULL BOXES
13-INCH x 24-INCH x 24-INCH
STA.46+50.6';72.6'RT
SEE DETAIL 112

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH x 24-INCH
STA.46+90.2';7.4'RT

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH x 24-INCH
STA.49+70.8';7.4'RT
SEE DETAIL 112

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH x 24-INCH
STA.50+12.2';61.6'LT
SEE DETAIL 112

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH x 24-INCH
STA.49+44.4';54'RT
SEE DETAIL 112

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH x 24-INCH
STA.46+99.1';6'RT
SEE DETAIL 112

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH x 24-INCH

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH x 24-INCH
STA.46+96.2';67.7'RT
SEE DETAIL 112

SPV.0060.302 PULL BOXES 13-INCH x 24-INCH x 24-INCH

SPV.0060.347 TWO (2) - LUMINAIRE ARMS SINGLE MEMBER 8-FT. - SPECIAL
SPV.0060.371 TWO (2) - INSTALLING CITY FURNISHED LUMINAIRE LED UTILITY 2

#5436
654.0105 CONCRETE BASES TYPE 5 (WISDOT) STA.50+10.7';65'LT
657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE
SPV.0060.320 POLES TYPE 25-AL-BD
SPV.0060.347 TWO (2) - LUMINAIRE ARMS SINGLE MEMBER 8-FT. - SPECIAL
SPV.0060.371 TWO (2) - INSTALLING CITY FURNISHED LUMINAIRE LED UTILITY 2

#5268
654.0105 CONCRETE BASES TYPE 5 (WISDOT) STA.47+31.4';4.5'RT
657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE
SPV.0060.320 POLES TYPE 25-AL-BD
SPV.0060.347 TWO (2) - LUMINAIRE ARMS SINGLE MEMBER 8-FT. - SPECIAL
SPV.0060.371 TWO (2) - INSTALLING CITY FURNISHED LUMINAIRE LED UTILITY 2

#7612
25'S6'AL,3M2
3MVACI-4-0

1ACI-60-0
W. OF CURB
SHORTED TRANSFORMER

EXISTING 35 FT. WP
PRIM.RISER
40'SE. OF UNIT #7612

2#12UF

2HSE-3-6
#5269
25'S6'AL252

"I" SPACE-15-0
N. OF UNIT

#7515
1HSE-3-6
WEP.CO.
W.P. #61-5192
6-0 U.B.152V

#5268
25'S6'AL252
PRIM.RISER, LTG.ARR.
2HSE-4-0

EXISTING 35 FT WP
2HSX ON CIR.NP-12, 1(2)PRIM.RISER, LTG.ARR.
GROUND & TEST, CENTERED IN ISLAND
AT THE PIPE CROSSING

1#6 PRIM. CIR.NP-11

CABLE 1#6 PRIM.CIR.NP-11

CABLE 1#6 PRIM.CIR.NP-9

EXISTING O.H. CABLE 1#6 PRIM.CIR.NP-9

EXISTING O.H. CABLE 1#6 PRIM.CIR.NP-11

EX. 35 FT WOOD POLE
CITY TO INSTALL
250W-OV20 BALLAST ON CIR.NP-9, & 250W-OV20 BALLAST ON CIR.NP-11

CONNECT TO BRIDGE CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH

EX. UG CABLE CIR.NP-11 WEST WIRE
EX. UG CABLE CIR.NP-11 BLU WIRE
ONE OF THE CIRCUITS IS NOT IN SERVICE

UTILITY POLE
PRIMARY RISER
LTG.ARR.

WISDOT POLE

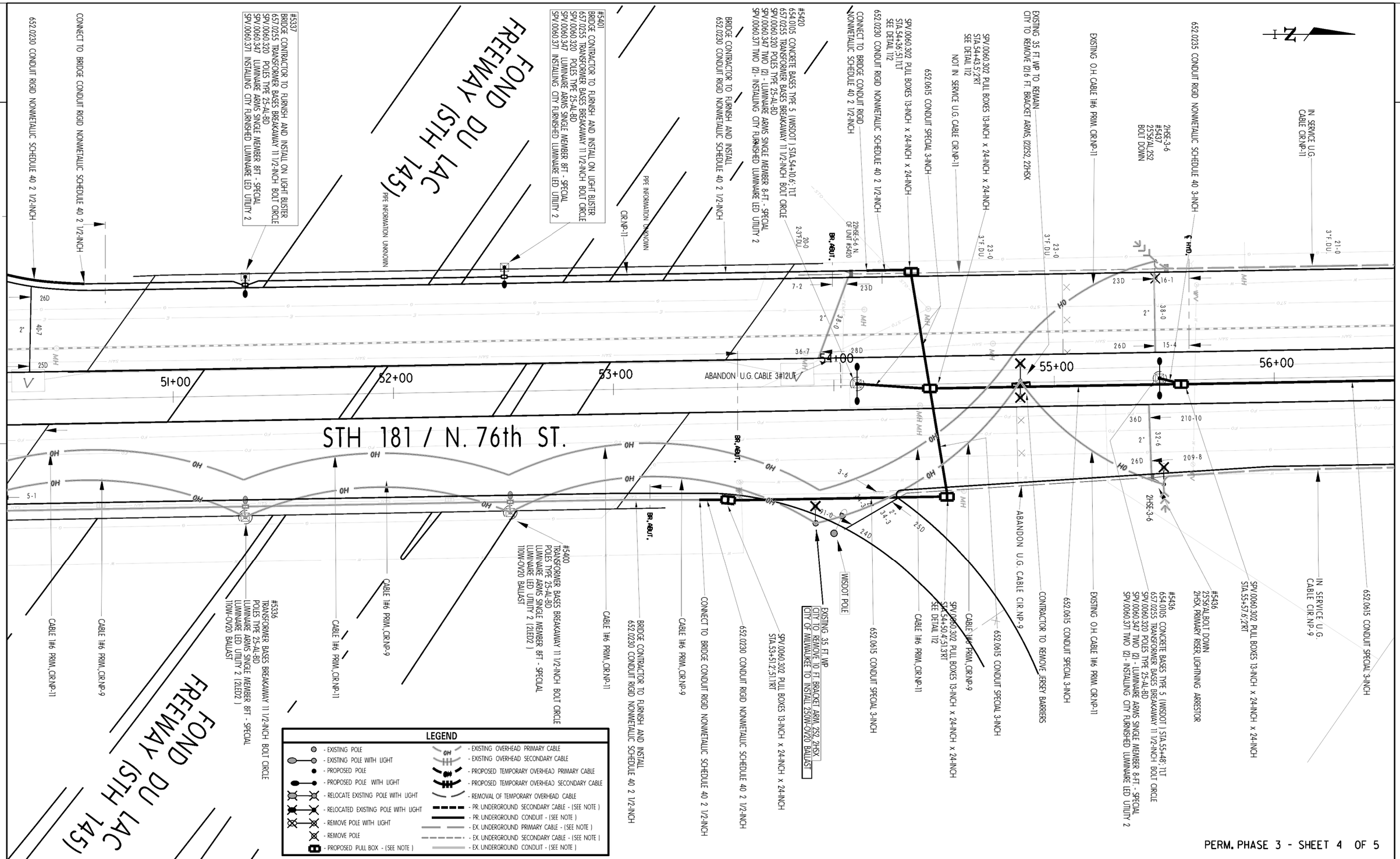
CIR.NP-11

LEGEND

- EXISTING POLE
- EXISTING POLE WITH LIGHT
- PROPOSED POLE
- PROPOSED POLE WITH LIGHT
- RELOCATE EXISTING POLE WITH LIGHT
- RELOCATED EXISTING POLE WITH LIGHT
- REMOVE POLE WITH LIGHT
- REMOVE POLE
- PROPOSED PULL BOX - (SEE NOTE)
- EXISTING OVERHEAD PRIMARY CABLE
- EXISTING OVERHEAD SECONDARY CABLE
- PROPOSED TEMPORARY OVERHEAD PRIMARY CABLE
- PROPOSED TEMPORARY OVERHEAD SECONDARY CABLE
- REMOVAL OF TEMPORARY OVERHEAD CABLE
- PR. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- PR. UNDERGROUND CONDUIT - (SEE NOTE)
- EX. UNDERGROUND PRIMARY CABLE - (SEE NOTE)
- EX. UNDERGROUND SECONDARY CABLE - (SEE NOTE)
- EX. UNDERGROUND CONDUIT - (SEE NOTE)

PERM. PHASE 3 - SHEET 3 OF 5

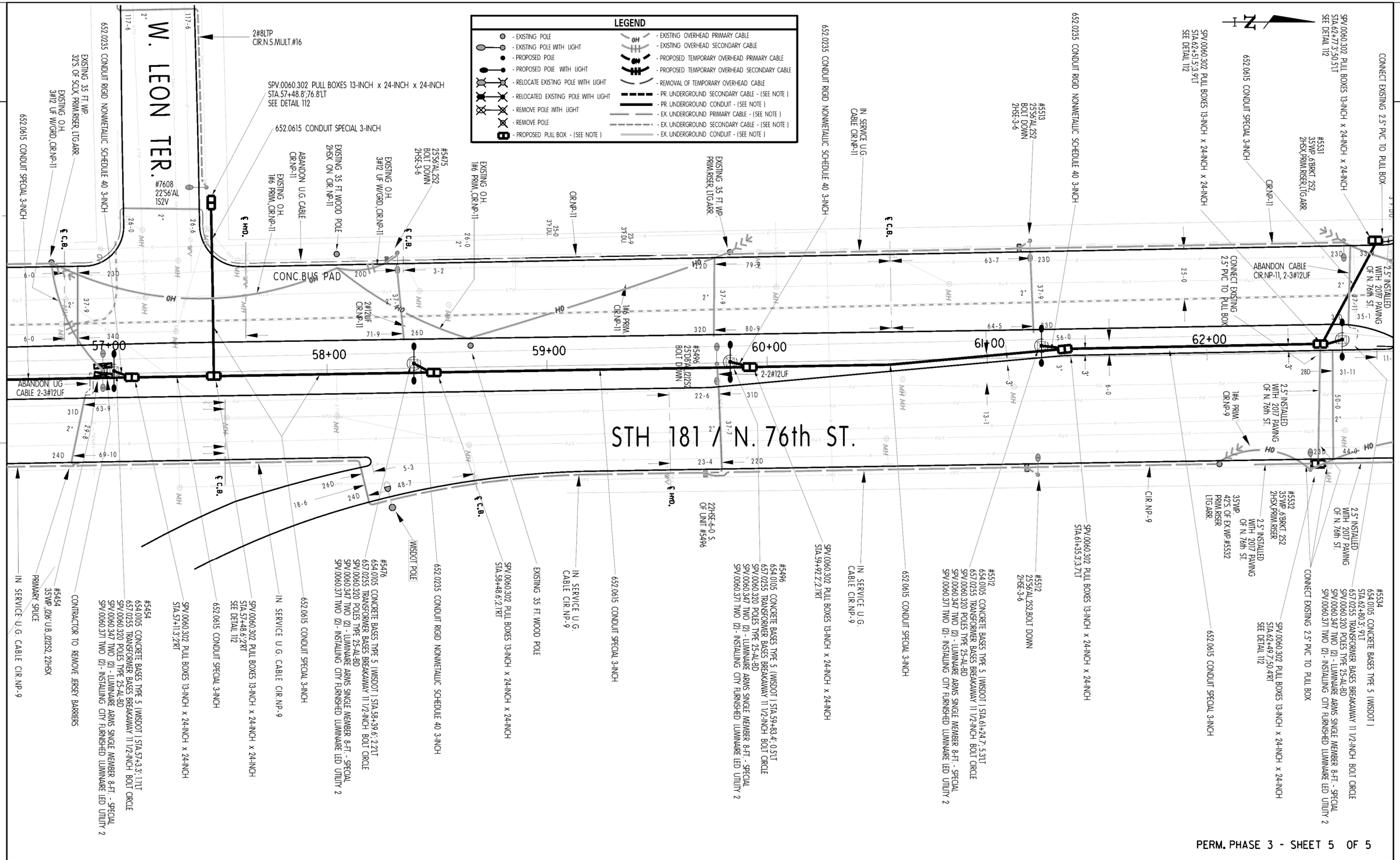
PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PERMANENT UNDERGROUND	SHEET 44	E



PERM. PHASE 3 - SHEET 4 OF 5

PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PERMANENT UNDERGROUND	SHEET 45	E

FILE NAME : W:\bes_WisDot\2022\(1360-13-70) Silver Spring Dr & 76th Over STH 145\SL Overhead & Underground\SL OH & UG Master.dgn
PLOT DATE : 19-APR-2022 15:32
PLOT BY : dkozel
PLOT NAME :
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 42



PROJECT NO. 1360-13-70	STH 145	COUNTY: MILWAUKEE	STREET LIGHTING - PERMANENT UNDERGROUND	SHEET 46	E

2

LEGEND

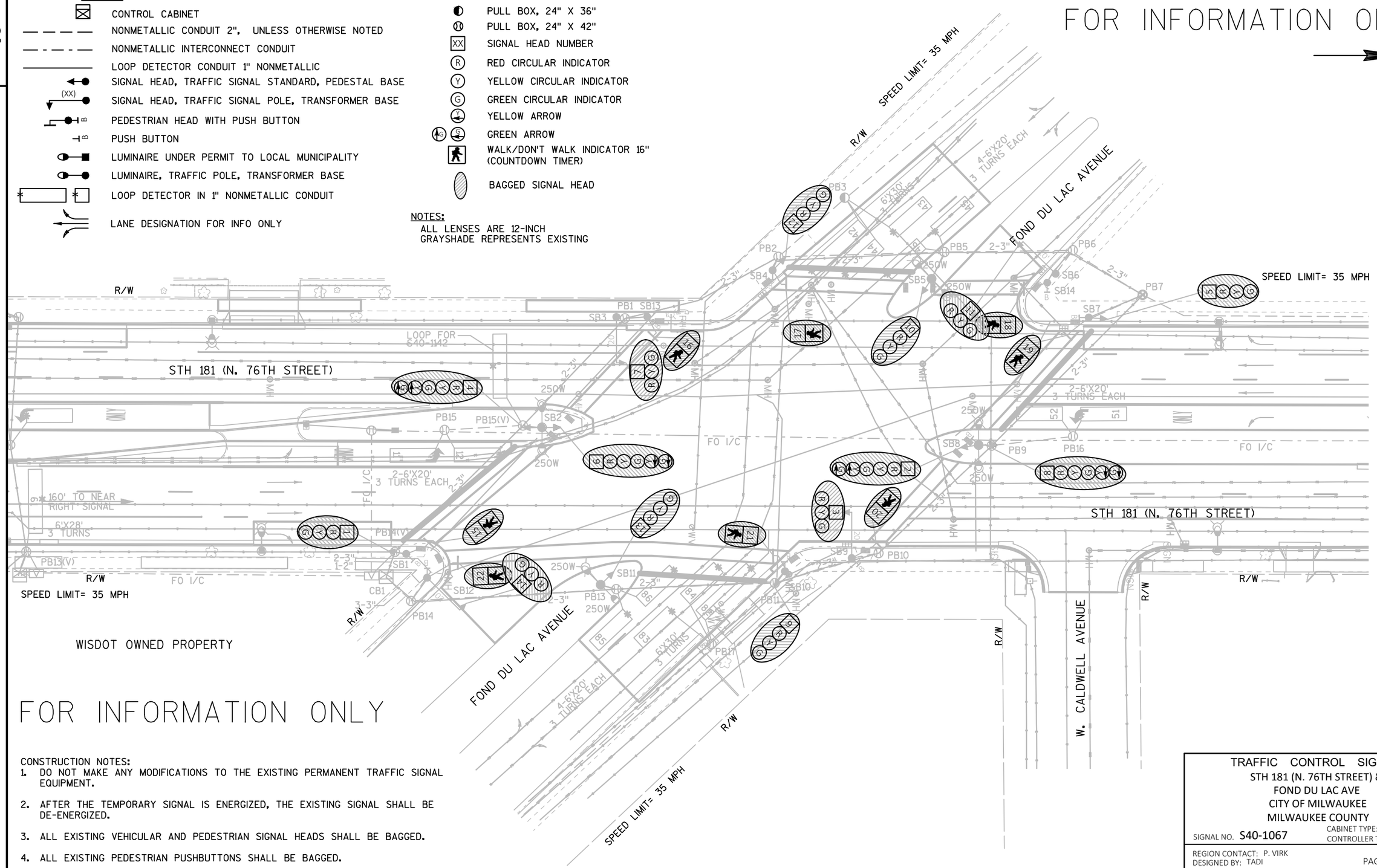
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LANE DESIGNATION FOR INFO ONLY

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- YA YELLOW ARROW
- GA GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- BAGGED SIGNAL HEAD

NOTES:
ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

FOR INFORMATION ONLY

N



SPEED LIMIT= 35 MPH

WISDOT OWNED PROPERTY

FOR INFORMATION ONLY

CONSTRUCTION NOTES:
1. DO NOT MAKE ANY MODIFICATIONS TO THE EXISTING PERMANENT TRAFFIC SIGNAL EQUIPMENT.
2. AFTER THE TEMPORARY SIGNAL IS ENERGIZED, THE EXISTING SIGNAL SHALL BE DE-ENERGIZED.
3. ALL EXISTING VEHICULAR AND PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED.
4. ALL EXISTING PEDESTRIAN PUSHBUTTONS SHALL BE BAGGED.

TRAFFIC CONTROL SIGNAL
STH 181 (N. 76TH STREET) &
FOND DU LAC AVE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1067
CABINET TYPE: TEMP
CONTROLLER TYPE: ECONOLITE

REGION CONTACT: P. VIRK
DESIGNED BY: TADI
REVISED BY:

PAGE 1 OF 5

PROJECT NO: 1360-13-70	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-STAGE	SHEET 47	E

FILE NAME : Z:\SHARED\WI\2552 STH 145 TEMPORARY SIGNALS\CAD\S40-1067_FOND_DU_LAC_TEMP_PRESTAGE.DWG
LAYOUT NAME - S40-1067_D_PG1

PLOT DATE : 4/28/2022 6:27 PM PLOT BY : JEFF FAIT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

CONSTRUCTION NOTES:

1. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO ANY CONSTRUCTION.
2. ALL SIGNING, STRIPING, TRAFFIC SIGNALS, AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
3. CONTRACTOR SHALL USE THE EXISTING ELECTRICAL SERVICE, AND ADJUST THE LOCATIONS OF THE TEMPORARY SIGNAL FACES TO ACCOMMODATE TRAFFIC DURING STAGING.
4. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET & HEADS SHALL BE AS DIRECTED BY THE ON-SITE ENGINEER.
5. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ON-SITE ENGINEER.
7. ALL EXISTING PERMANENT SIGNAL HEADS SHALL BE BAGGED.

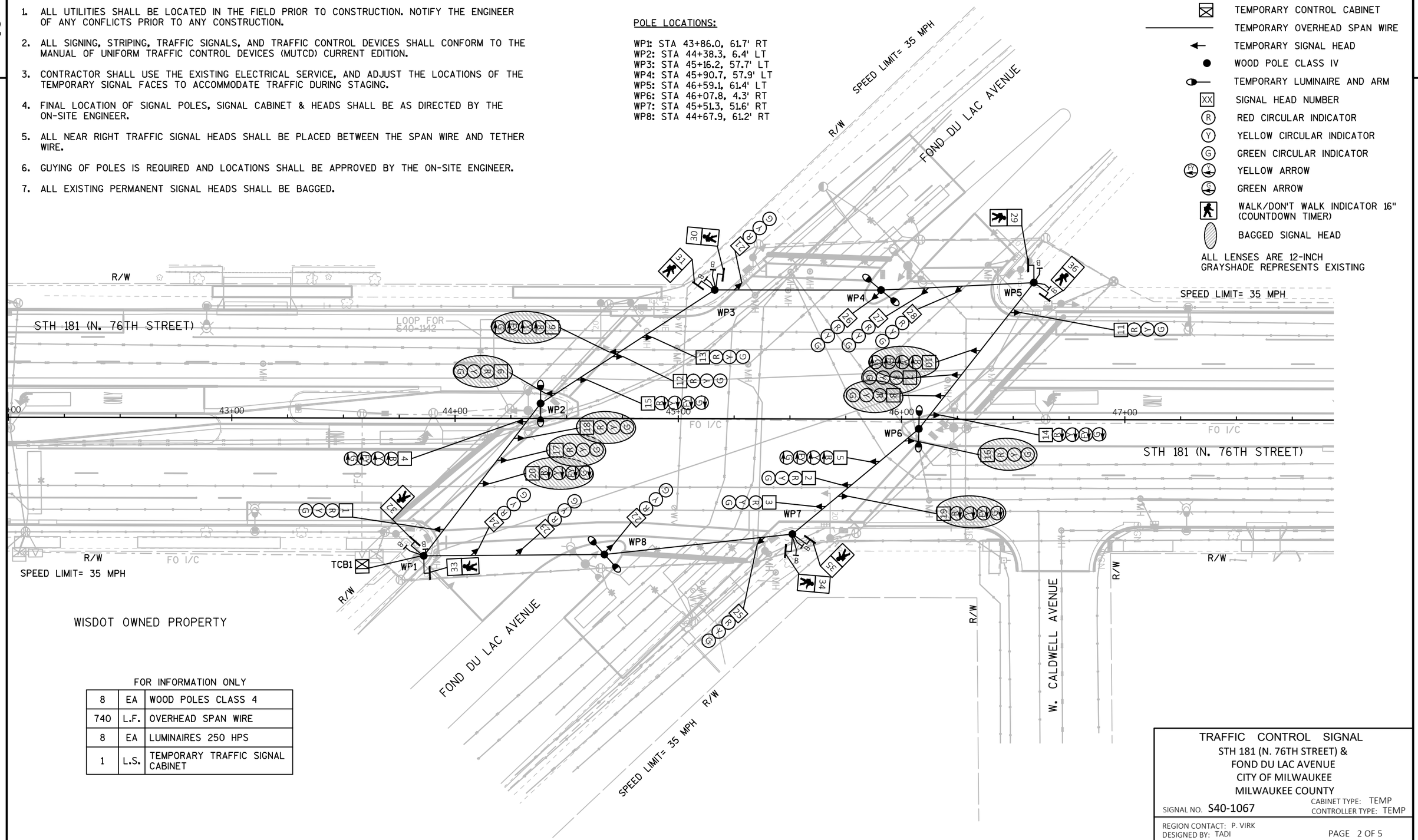
POLE LOCATIONS:

WP1: STA 43+86.0, 61.7' RT
WP2: STA 44+38.3, 6.4' LT
WP3: STA 45+16.2, 57.7' LT
WP4: STA 45+90.7, 57.9' LT
WP5: STA 46+59.1, 61.4' LT
WP6: STA 46+07.8, 4.3' RT
WP7: STA 45+51.3, 51.6' RT
WP8: STA 44+67.9, 61.2' RT

LEGEND

- TEMPORARY CONTROL CABINET
- TEMPORARY OVERHEAD SPAN WIRE
- TEMPORARY SIGNAL HEAD
- WOOD POLE CLASS IV
- TEMPORARY LUMINAIRE AND ARM
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- BAGGED SIGNAL HEAD

ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



WISDOT OWNED PROPERTY

FOR INFORMATION ONLY

8	EA	WOOD POLES CLASS 4
740	L.F.	OVERHEAD SPAN WIRE
8	EA	LUMINAIRES 250 HPS
1	L.S.	TEMPORARY TRAFFIC SIGNAL CABINET

TRAFFIC CONTROL SIGNAL
STH 181 (N. 76TH STREET) &
FOND DU LAC AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1067
CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP

REGION CONTACT: P. VIRK
DESIGNED BY: TADI
REVISED BY:

PAGE 2 OF 5

PROJECT NO: 1360-13-70	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGES 1 & 4	SHEET 48	E

FILE NAME : Z:\SHARED\WI\2552 STH 145 TEMPORARY SIGNALS\CAD\S40-1067_FOND_DU_LAC_TEMP_STAGE_1_4.DWG
LAYOUT NAME - S40-1067_TEMP_STG_1_4_PG1
PLOT DATE : 4/28/2022 2:31 PM PLOT BY : JEFF FAIT PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

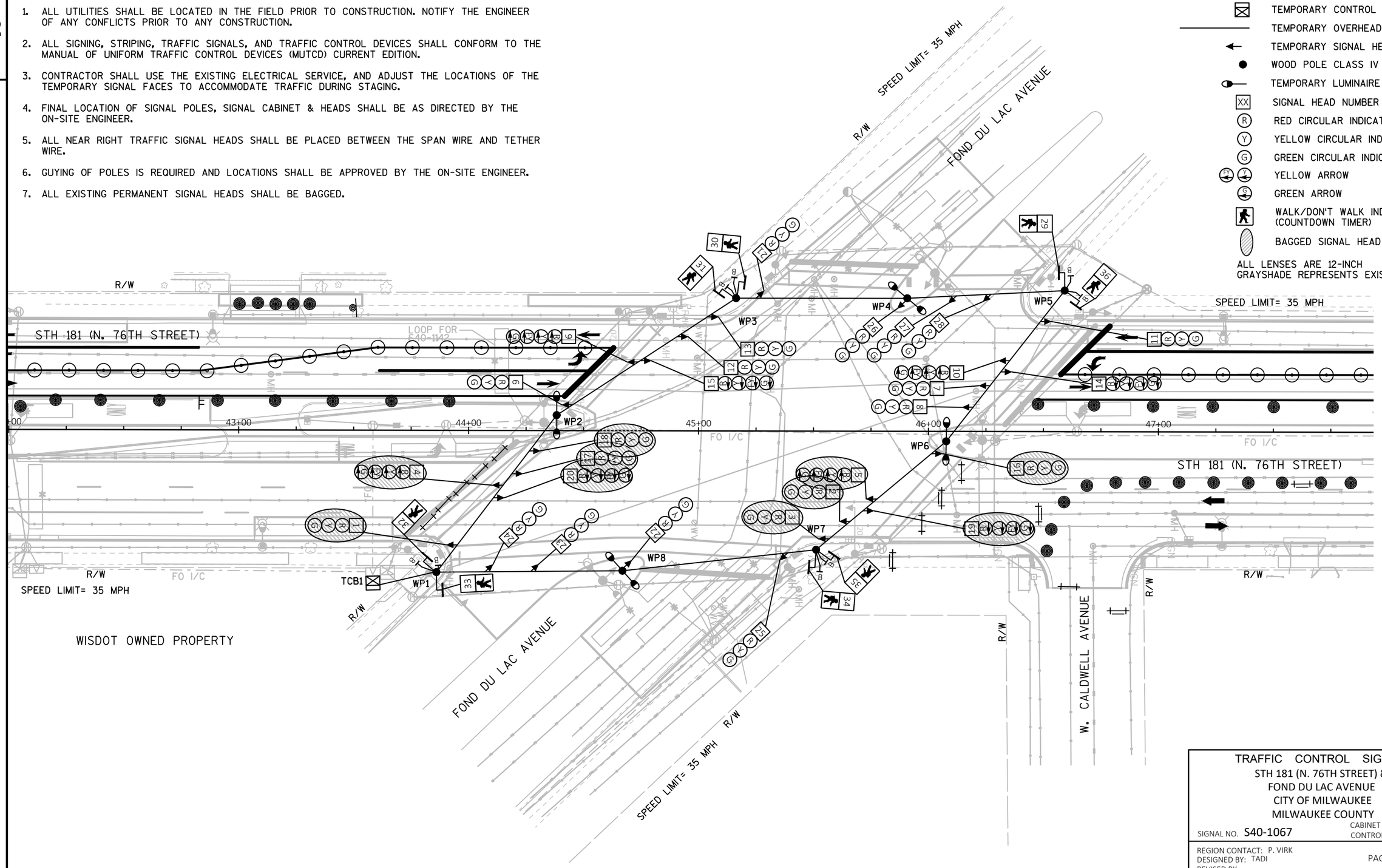
CONSTRUCTION NOTES:

1. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO ANY CONSTRUCTION.
2. ALL SIGNING, STRIPING, TRAFFIC SIGNALS, AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
3. CONTRACTOR SHALL USE THE EXISTING ELECTRICAL SERVICE, AND ADJUST THE LOCATIONS OF THE TEMPORARY SIGNAL FACES TO ACCOMMODATE TRAFFIC DURING STAGING.
4. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET & HEADS SHALL BE AS DIRECTED BY THE ON-SITE ENGINEER.
5. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ON-SITE ENGINEER.
7. ALL EXISTING PERMANENT SIGNAL HEADS SHALL BE BAGGED.

LEGEND

- TEMPORARY CONTROL CABINET
- TEMPORARY OVERHEAD SPAN WIRE
- TEMPORARY SIGNAL HEAD
- WOOD POLE CLASS IV
- TEMPORARY LUMINAIRE AND ARM
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- BAGGED SIGNAL HEAD

ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
STH 181 (N. 76TH STREET) &
FOND DU LAC AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1067
CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP

REGION CONTACT: P. VIRK
DESIGNED BY: TADI
REVISED BY:

PAGE 3 OF 5

PROJECT NO: 1360-13-70	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 49 E

FILE NAME : Z:\SHARED\WI\2552 STH 145 TEMPORARY SIGNALS\CAD\S40-1067_FOND_DU_LAC_TEMP_STAGE_2.DWG
LAYOUT NAME - S40-1067_TEMP_STG_2_PG1

PLOT DATE : 4/28/2022 2:45 PM PLOT BY : JEFF FAIT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

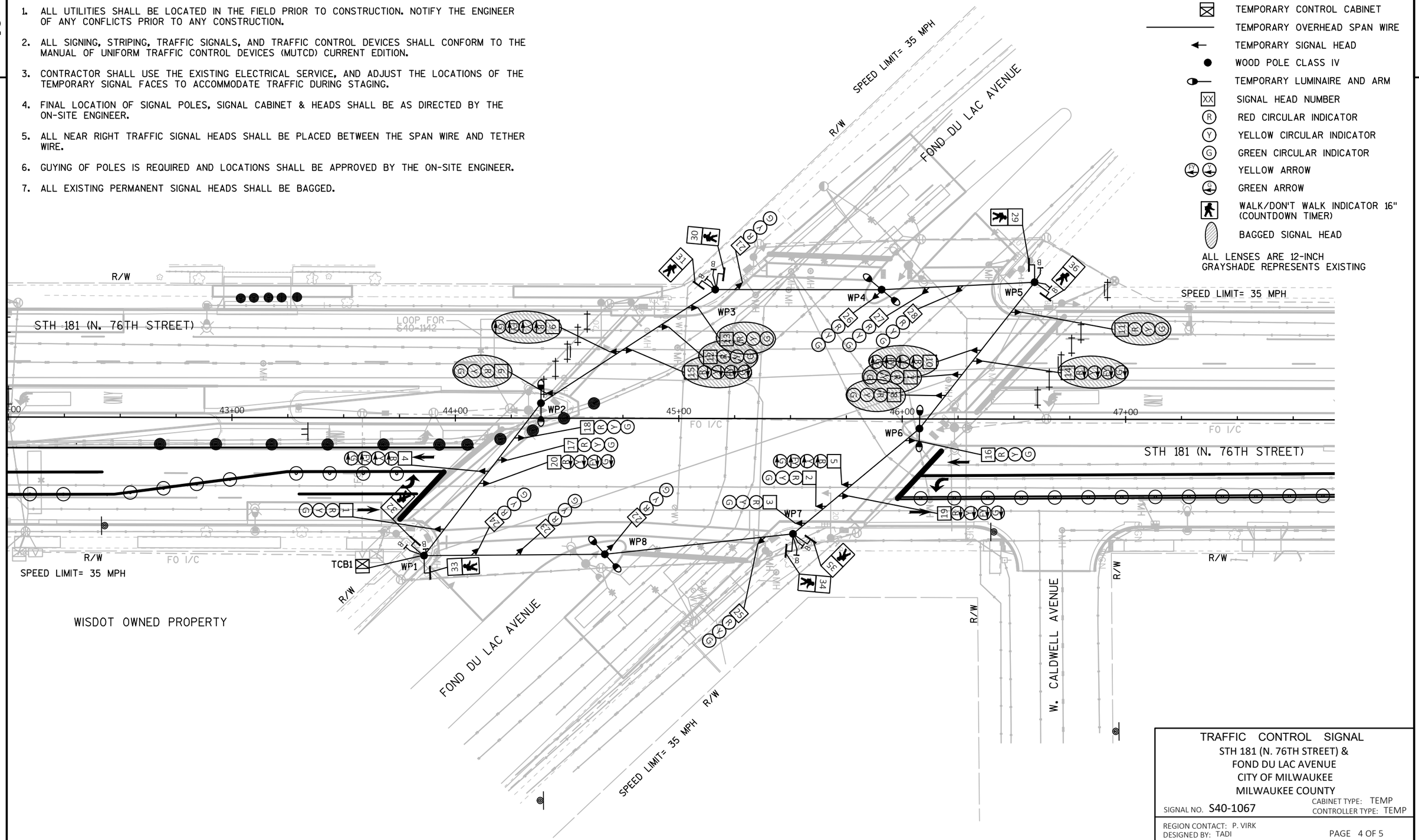
CONSTRUCTION NOTES:

1. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO ANY CONSTRUCTION.
2. ALL SIGNING, STRIPING, TRAFFIC SIGNALS, AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
3. CONTRACTOR SHALL USE THE EXISTING ELECTRICAL SERVICE, AND ADJUST THE LOCATIONS OF THE TEMPORARY SIGNAL FACES TO ACCOMMODATE TRAFFIC DURING STAGING.
4. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET & HEADS SHALL BE AS DIRECTED BY THE ON-SITE ENGINEER.
5. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ON-SITE ENGINEER.
7. ALL EXISTING PERMANENT SIGNAL HEADS SHALL BE BAGGED.

LEGEND

- TEMPORARY CONTROL CABINET
- TEMPORARY OVERHEAD SPAN WIRE
- TEMPORARY SIGNAL HEAD
- WOOD POLE CLASS IV
- TEMPORARY LUMINAIRE AND ARM
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- BAGGED SIGNAL HEAD

ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



PROJECT NO: 1360-13-70	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 50 E

TRAFFIC CONTROL SIGNAL
STH 181 (N. 76TH STREET) &
FOND DU LAC AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1067
CABINET TYPE: TEMP
CONTROLLER TYPE: TEMP

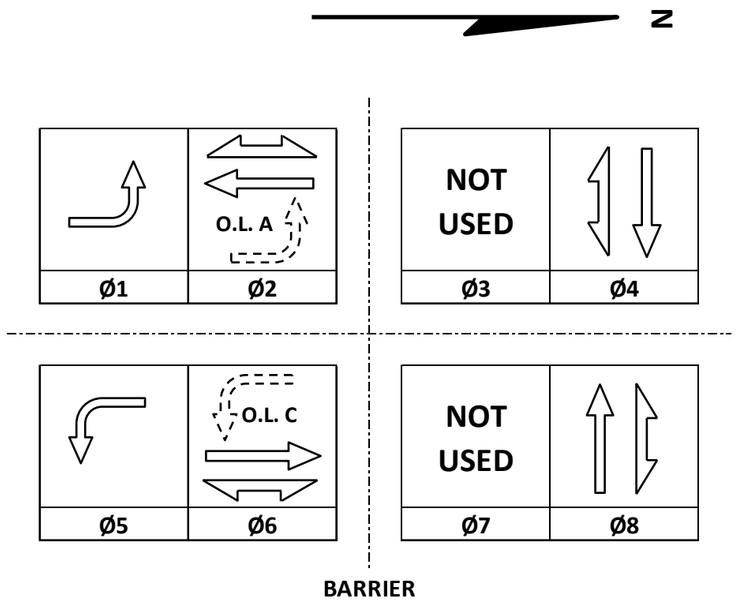
REGION CONTACT: P. VIRK
DESIGNED BY: TADI
REVISED BY:

PAGE 4 OF 5

FILE NAME : Z:\SHARED\WI\2552 STH 145 TEMPORARY SIGNALS\CAD\S40-1067_FOND_DU_LAC_TEMP_STAGE_3.DWG
LAYOUT NAME - S40-1067_TEMP_STG_3_PG1

PLOT DATE : 4/28/2022 4:16 PM PLOT BY : JEFF FAIT PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
Ø1	4,5,9,10	-
Ø2	11,12,1316,17,18	R
Ø3		
Ø4	21,22,23,24	R
Ø5	14,15,19,20	-
Ø6	1,2,3,6,7,8	R
Ø7		
Ø8	25,26,27,28	R
Ø2P	29,30	
Ø4P	31,32	
Ø6P	33,34	
Ø8P	35,36	
OLA	4,5,9,10	R ←
OLB		
OLC	14,15,19,20	R ←
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1	X	6	MAX	X
2	X	6	MAX	X
3				
4	X	8	MAX	X
5	X	2	MAX	X
6	X	2	MAX	X
7				
8	X	4	MAX	X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER	
CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

STH 181 & FOND DU LAC AVE

CITY OF MILWAUKEE

MILWAUKEE COUNTY

SIGNAL NO: S40-1067 CABINET TYPE: TEMP

CONTROLLER TYPE: ECONOLITE

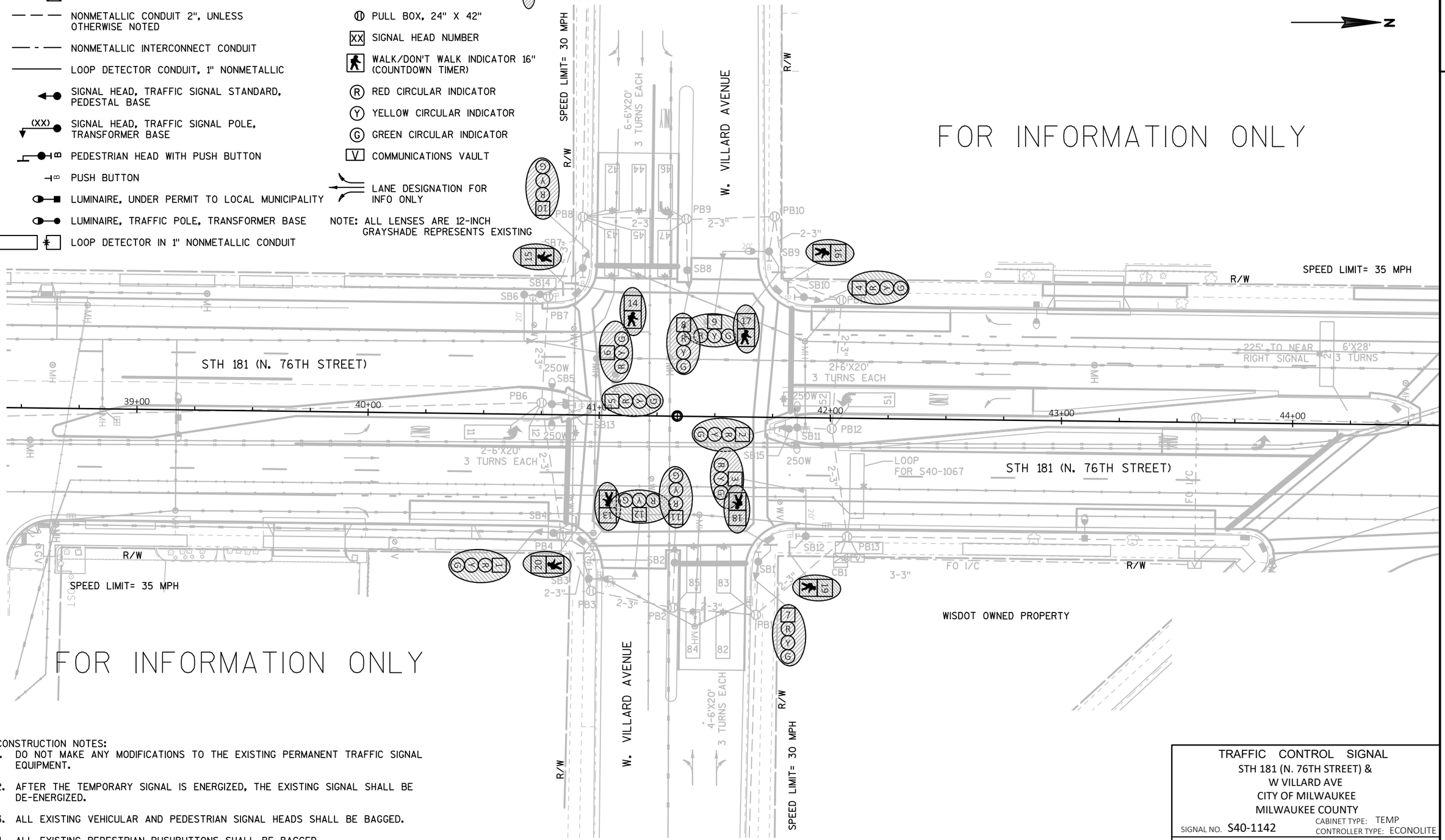
DATE: 4/22 PAGE NUMBER: 5 OF 5

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- V COMMUNICATIONS VAULT
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

BAGGED SIGNAL HEAD



CONSTRUCTION NOTES:

1. DO NOT MAKE ANY MODIFICATIONS TO THE EXISTING PERMANENT TRAFFIC SIGNAL EQUIPMENT.
2. AFTER THE TEMPORARY SIGNAL IS ENERGIZED, THE EXISTING SIGNAL SHALL BE DE-ENERGIZED.
3. ALL EXISTING VEHICULAR AND PEDESTRIAN SIGNAL HEADS SHALL BE BAGGED.
4. ALL EXISTING PEDESTRIAN PUSHBUTTONS SHALL BE BAGGED.

TRAFFIC CONTROL SIGNAL
STH 181 (N. 76TH STREET) &
W VILLARD AVE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1142
CABINET TYPE: TEMP
CONTROLLER TYPE: ECONOLITE

REGION CONTACT: P. VIRK
DESIGNED BY: TADI
REVISED BY:

PAGE 1 OF 5

PROJECT NO: 1360-13-70	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - PRE-STAGE	SHEET 52	E

FILE NAME : Z:\SHARED\WI\2552 STH 145 TEMPORARY SIGNALS\CAD\S40-1142_VILLARD_TEMP_PRESTAGE.DWG
LAYOUT NAME - S40-1142_TEMP_PRESTAGE_PG1

PLOT DATE : 4/27/2022 6:46 PM PLOT BY : JEFF FAIT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TEMPORARY CONTROL CABINET
- TEMPORARY OVERHEAD SPAN WIRE
- TEMPORARY SIGNAL HEAD
- WOOD POLE CLASS IV
- TEMPORARY LUMINAIRE AND ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- BAGGED SIGNAL HEAD

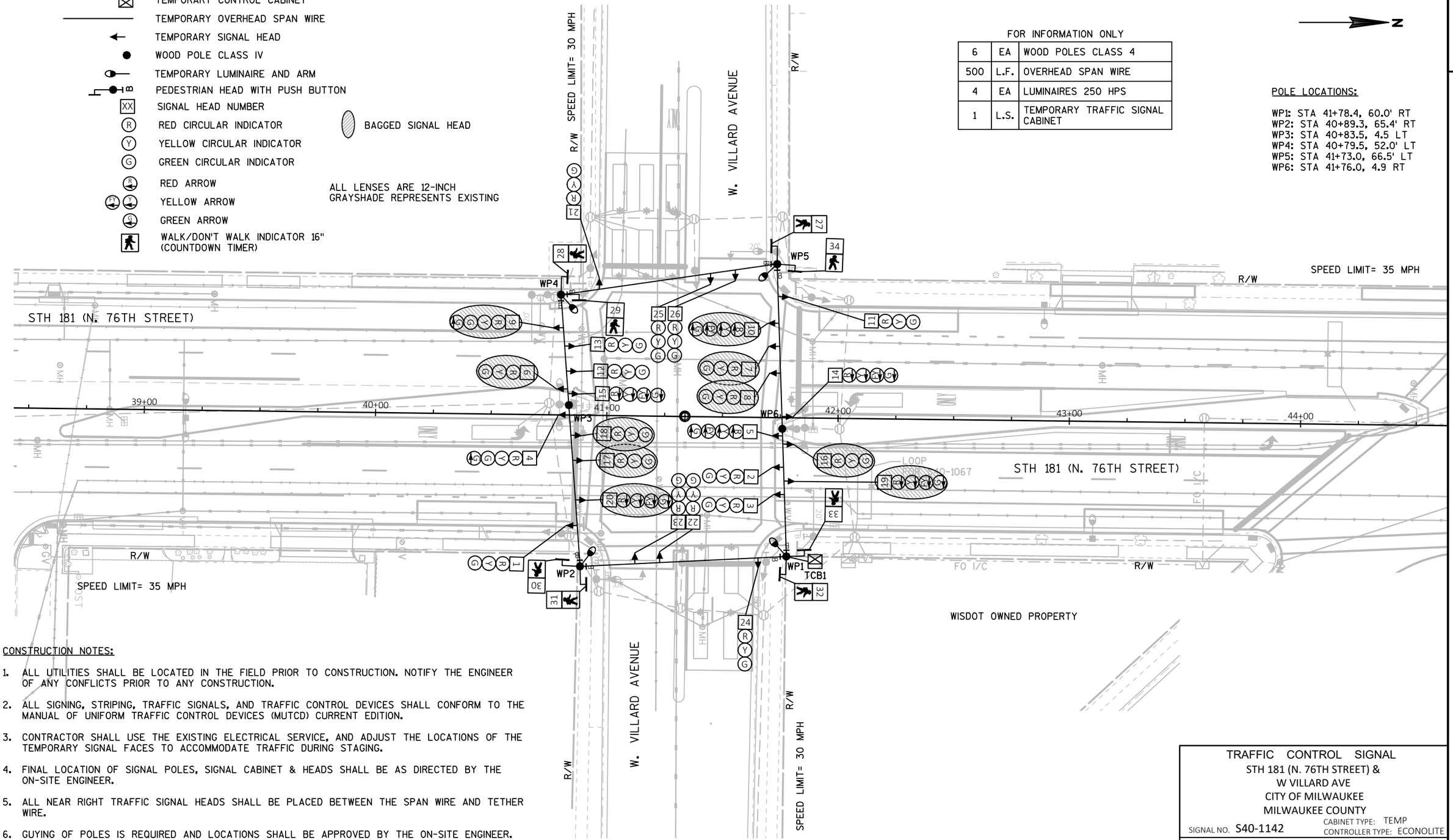
ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

FOR INFORMATION ONLY

6	EA	WOOD POLES CLASS 4
500	L.F.	OVERHEAD SPAN WIRE
4	EA	LUMINAIRES 250 HPS
1	L.S.	TEMPORARY TRAFFIC SIGNAL CABINET

POLE LOCATIONS:

WP1: STA 41+78.4, 60.0' RT
WP2: STA 40+89.3, 65.4' RT
WP3: STA 40+83.5, 4.5 LT
WP4: STA 40+79.5, 52.0' LT
WP5: STA 41+73.0, 66.5' LT
WP6: STA 41+76.0, 4.9 RT



CONSTRUCTION NOTES:

1. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO ANY CONSTRUCTION.
2. ALL SIGNING, STRIPING, TRAFFIC SIGNALS, AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
3. CONTRACTOR SHALL USE THE EXISTING ELECTRICAL SERVICE, AND ADJUST THE LOCATIONS OF THE TEMPORARY SIGNAL FACES TO ACCOMMODATE TRAFFIC DURING STAGING.
4. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET & HEADS SHALL BE AS DIRECTED BY THE ON-SITE ENGINEER.
5. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ON-SITE ENGINEER.
7. ALL EXISTING PERMANENT SIGNAL HEADS SHALL BE BAGGED.

TRAFFIC CONTROL SIGNAL
STH 181 (N. 76TH STREET) &
W VILLARD AVE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1142
CABINET TYPE: TEMP
CONTROLLER TYPE: ECONOLITE

REGION CONTACT: P. VIRK
DESIGNED BY: TADI
REVISED BY:

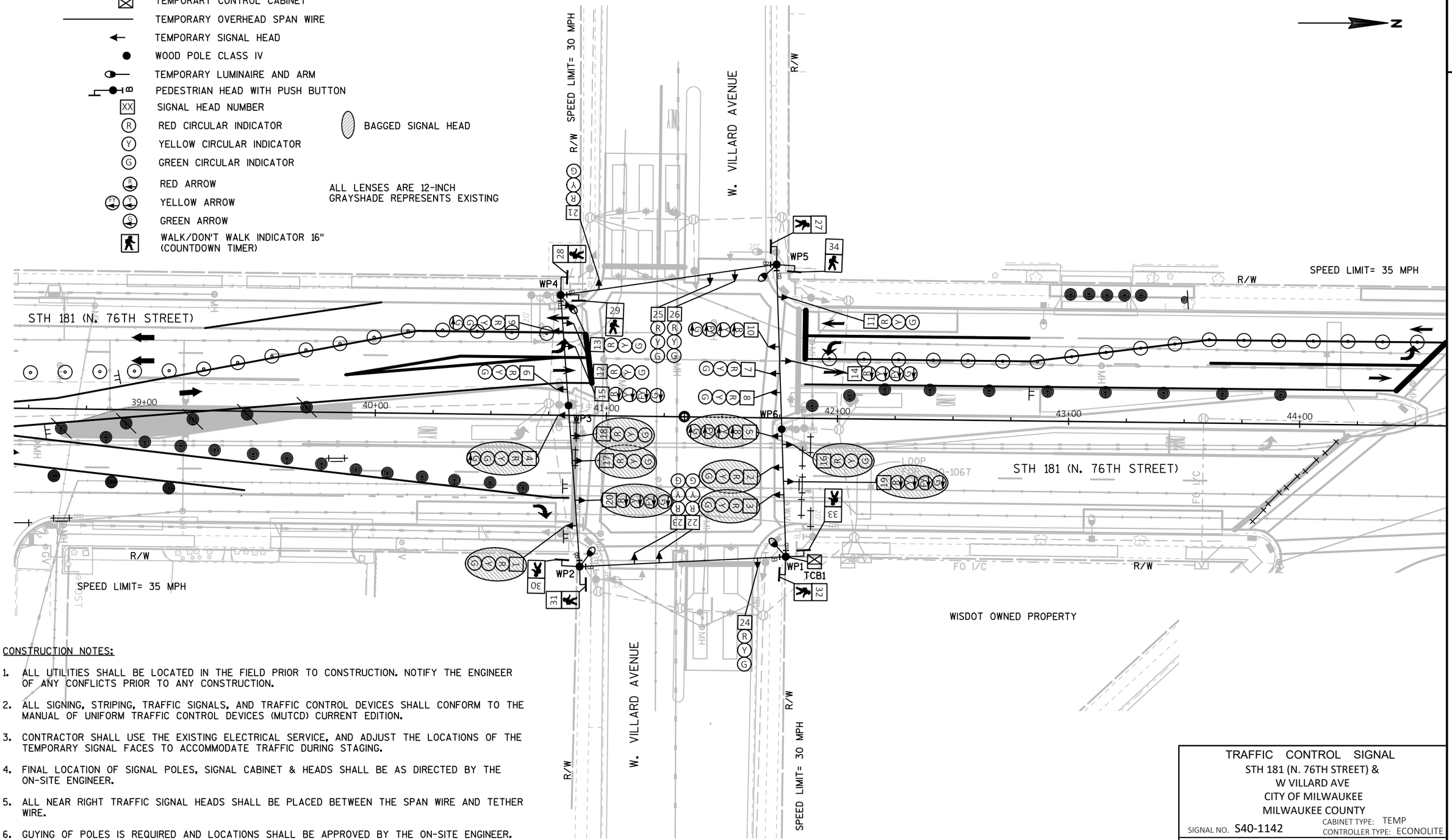
PAGE 2 OF 5

PROJECT NO: 1360-13-70	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGES 1 & 4	SHEET 53	E

LEGEND

- TEMPORARY CONTROL CABINET
- TEMPORARY OVERHEAD SPAN WIRE
- TEMPORARY SIGNAL HEAD
- WOOD POLE CLASS IV
- TEMPORARY LUMINAIRE AND ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- BAGGED SIGNAL HEAD

ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO ANY CONSTRUCTION.
2. ALL SIGNING, STRIPING, TRAFFIC SIGNALS, AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
3. CONTRACTOR SHALL USE THE EXISTING ELECTRICAL SERVICE, AND ADJUST THE LOCATIONS OF THE TEMPORARY SIGNAL FACES TO ACCOMMODATE TRAFFIC DURING STAGING.
4. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET & HEADS SHALL BE AS DIRECTED BY THE ON-SITE ENGINEER.
5. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ON-SITE ENGINEER.
7. ALL EXISTING PERMANENT SIGNAL HEADS SHALL BE BAGGED.

TRAFFIC CONTROL SIGNAL
STH 181 (N. 76TH STREET) &
W VILLARD AVE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1142
CABINET TYPE: TEMP
CONTROLLER TYPE: ECONOLITE

REGION CONTACT: P. VIRK
DESIGNED BY: TADI
REVISED BY:

PAGE 3 OF 5

PROJECT NO: 1360-13-70	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2	SHEET 54 E

FILE NAME : Z:\SHARED\WI\2552 STH 145 TEMPORARY SIGNALS\CAD\S40-1142_VILLARD_TEMP_STAGE_2.DWG
LAYOUT NAME - S40-1142_TEMP_STG_2_PG1

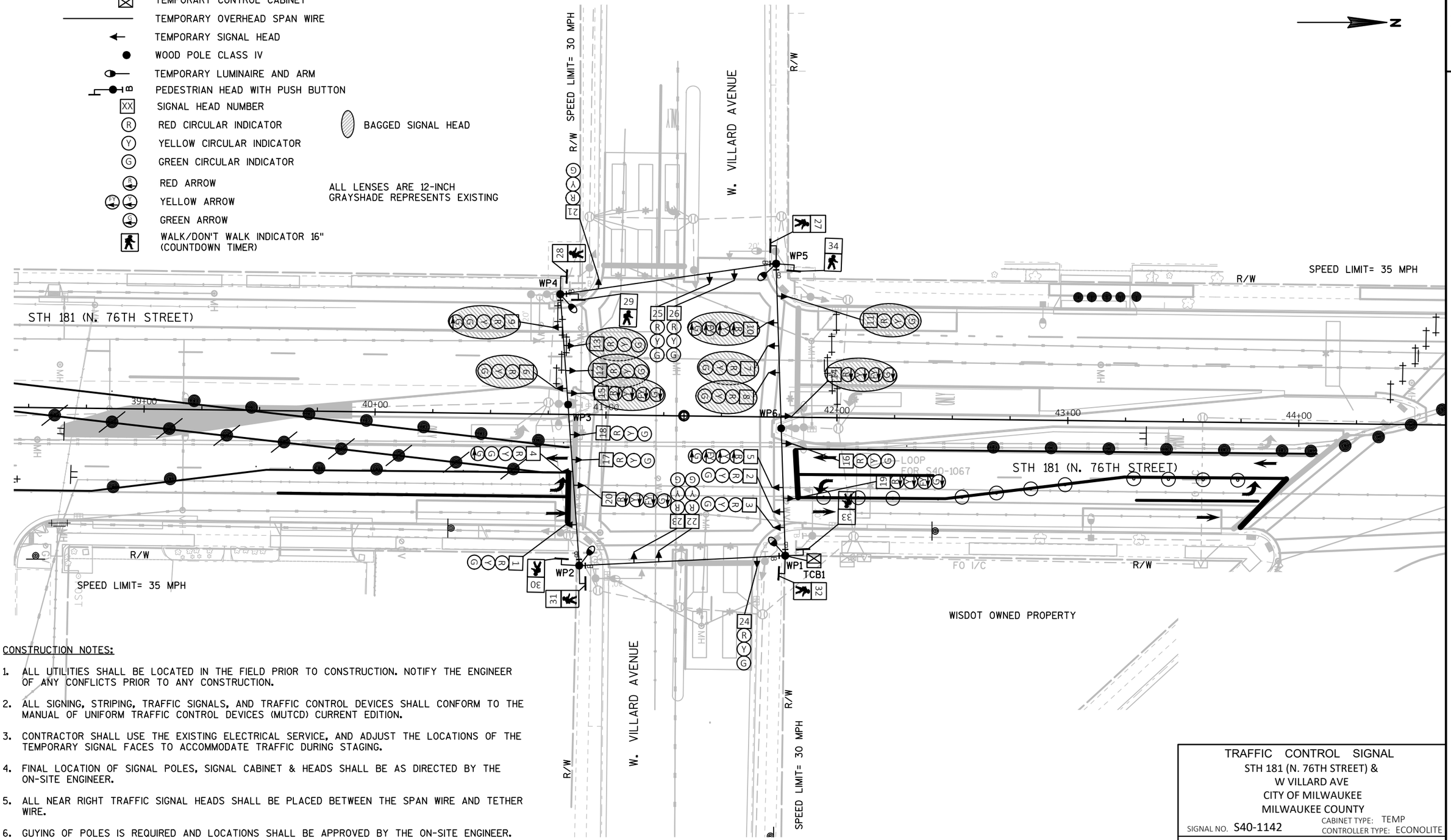
PLOT DATE : 4/27/2022 7:27 PM PLOT BY : JEFF FAIT PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- TEMPORARY CONTROL CABINET
- TEMPORARY OVERHEAD SPAN WIRE
- TEMPORARY SIGNAL HEAD
- WOOD POLE CLASS IV
- TEMPORARY LUMINAIRE AND ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- BAGGED SIGNAL HEAD

ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO ANY CONSTRUCTION.
2. ALL SIGNING, STRIPING, TRAFFIC SIGNALS, AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
3. CONTRACTOR SHALL USE THE EXISTING ELECTRICAL SERVICE, AND ADJUST THE LOCATIONS OF THE TEMPORARY SIGNAL FACES TO ACCOMMODATE TRAFFIC DURING STAGING.
4. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET & HEADS SHALL BE AS DIRECTED BY THE ON-SITE ENGINEER.
5. ALL NEAR RIGHT TRAFFIC SIGNAL HEADS SHALL BE PLACED BETWEEN THE SPAN WIRE AND TETHER WIRE.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ON-SITE ENGINEER.
7. ALL EXISTING PERMANENT SIGNAL HEADS SHALL BE BAGGED.

TRAFFIC CONTROL SIGNAL
STH 181 (N. 76TH STREET) &
W VILLARD AVE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. S40-1142
CABINET TYPE: TEMP
CONTROLLER TYPE: ECONOLITE

REGION CONTACT: P. VIRK
DESIGNED BY: TADI
REVISED BY:

PAGE 4 OF 5

PROJECT NO: 1360-13-70	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 55	E

FILE NAME : Z:\SHARED\WI\2552 STH 145 TEMPORARY SIGNALS\CAD\S40-1142_VILLARD_TEMP_STAGE_3.DWG
LAYOUT NAME - S40-1142_TEMP_STG_3_PG1

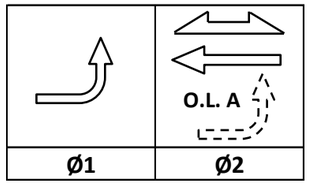
PLOT DATE : 4/27/2022 7:34 PM PLOT BY : JEFF FAIT PLOT NAME : PLOT SCALE : 1 IN:40 FT

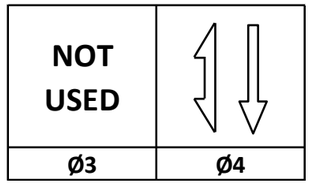
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5,9,10	-
Ø2	11,12,13,16,17,18	R
Ø3		
Ø4	21,22,23	R
Ø5	14,15,19,20	-
Ø6	1,2,3,6,7,8	R
Ø7		
Ø8	24,25,26	R
Ø2P	27,28	
Ø4P	29,30	
Ø6P	31,32	
Ø8P	33,34	
OLA	4,5,9,10	R ←
OLB		
OLC	14,15,19,20	R ←
OLD		

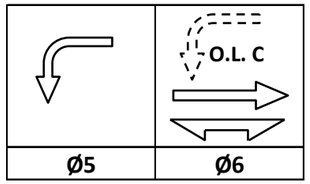
N

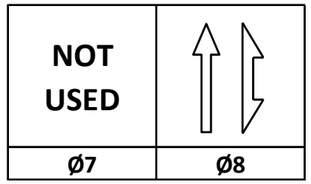
RING 1





RING 2





BARRIER

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1	X	6	MAX	X
2	X	6	MAX	X
3				
4	X	8	MAX	X
5	X	2	MAX	X
6	X	2	MAX	X
7				
8	X	4	MAX	X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

STH 181 & VILLARD AVE

CITY OF MILWAUKEE

MILWAUKEE COUNTY

SIGNAL NO: S40-1142 CABINET TYPE: TEMP

CONTROLLER TYPE: ECONOLITE

DATE: 4/22 PAGE NUMBER: 5 OF 5

PULL FIBER BACK
FROM I/C CV103
TO I/C CV101, COIL
INTO I/C CV101 AND I/C PB100

PI: 93+39.70

95

100

105

I/C PB100

I/C CV100

I/C CV101

I/C CV102

I/C CV103

F0 I/C

STH 181 (N 76 STREET)

W. VILLARD AVENUE

W FOND DU LAC AVE

STH 145

CUT FIBER AT I/C CV103
(PULL BACK FIBER FROM I/C CV103 TO I/C CV101,
COIL INTO I/C CV101 AND I/C PB100)

CONSTRUCTION NOTES:
1. BEFORE CUTTING THE FIBER, CONTRACTOR SHALL CONTACT REGIONAL ELECTRICAL FIELD UNIT AT 414-266-1170

2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

3. GRAYSHADE REPRESENTS EXISTING.
BOLD REPRESENTS ITEMS TO BE REMOVED.

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 1-DUCT 2-INCH UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

SIGNAL INTERCONNECT PLAN
STH 181 (N. 76TH STREET)
CITY OF MILWAUKEE
COUNTY MILWAUKEE

REGION CONTACT: P. VIRK
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 1360-13-70	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT REMOVAL PLAN	SHEET 57	E

FILE NAME : N:\PDS\C3D\CAD\13601300\SIG\INTERCONNECT\024101_IC_RM_20.DWG
LAYOUT NAME - 01

PLOT DATE : 4/27/2022 2:14 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

RE-INSTALL FIBER BACK TO I/C CV103 ONCE NEW CONDUIT IS INSTALLED

PI: 93+39.70

95

100

105

I/C PB100

I/C CV100

I/C CV101

I/C CV102

I/C CV103

F0 I/C

F0 I/C

W. VILLARD AVENUE

W FOND DU LAC AVE

W FOND DU LAC AVE

STH 181 (N 76 STREET)

STH 181 (N 76 STREET)

STH 181 (N 76 STREET)

STH 181 (N 76 STREET)

STH 145

STH 145

2" REINFORCED THERMOSETTING RESIN CONDUIT ON OUTSIDE OF BRIDGE PARAPET

INSTALL 10 AWG TRACER CABLE AND RE-INSTALL FIBER FROM I/C CV101 TO I/C CV103

SPLICE FIBER INTO THE SPLICE ENCLOSURE

N

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE REGIONAL ELECTRICAL FIELD UNIT AT (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. LEAVE 100-FEET OF FIBER OPTIC INTERCONNECT CABLE COILED IN EACH INTERCONNECT VAULT. LEAVE 30-FEET OF FIBER OPTIC CABLE IN EACH INTERCONNECT PULL BOX.
5. INSTALL 10 AWG TRACER CABLE IN INTERCONNECT CONDUIT.
6. SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS OF FIBER OPTIC WARNING TAPE.
7. MAINLINE SPLICES SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.

LEGEND

- CONTROL CABINET
- CONDUIT HDPE 1-DUCT 2-INCH UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 42"
- COMMUNICATIONS VAULT

SIGNAL INTERCONNECT PLAN
STH 181 (N. 76TH STREET)
CITY OF MILWAUKEE
COUNTY MILWAUKEE

REGION CONTACT: P. VIRK
DESIGNED BY: S. WAGNER
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 1360-13-70	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 58	E

FILE NAME : N:\PDS\C3D\CAD\13601300\SIG\INTERCONNECT\024001_IC_20.DWG
LAYOUT NAME - 01

PLOT DATE : 4/27/2022 2:13 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2

76th ST. SB

28+00 29+00 30+00 31+00 32+00 33+00

R/L 76th ST.

MATCH LINE STA. 33+75.00

76th ST. NB

CONTINUE PAVEMENT MARKING TO END OF SECTION DISTURBED BY THE PROJECT. APPROXIMATELY STATION 29+00

MARKING LINE EPOXY 4-INCH, 12.5' SEGMENT, 37.5' GAP, WHITE

N

MATCH LINE STA. 33+75.00

N

MARKING LINE EPOXY 4-INCH, WHITE

MARKING LINE EPOXY 4-INCH, 12.5' SEGMENT, 37.5' GAP, WHITE

MARKING ISLAND NOSE EPOXY

MARKING LINE EPOXY 8-INCH, WHITE

76th ST. SB

R/L 76th ST.

34+00 35+00 36+00 37+00 38+00 39+00

76th ST. NB

MARKING LINE EPOXY 4-INCH, 12.5' SEGMENT, 37.5' GAP, WHITE

MATCH LINE STA. 39+50.00

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 59	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\024501_PM.DWG
LAYOUT NAME - 01

PLOT DATE : 4/6/2022 9:23 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE STA. 39+50.00

N

MARKING LINE EPOXY 8-INCH, WHITE

MARKING WORD EPOXY

MARKING LINE EPOXY 4-INCH, 12.5' SEGMENT, 37.5' GAP, WHITE

MARKING STOP LINE EPOXY 18-INCH, WHITE

MARKING LINE EPOXY 4-INCH, 3' SEGMENT, 9' GAP, WHITE

MARKING LINE EPOXY 4-INCH, WHITE

MARKING LINE EPOXY 4-INCH, 12.5' SEGMENT, 37.5' GAP, WHITE

76th ST. SB

76th ST. NB

R/L 76th ST.

MARKING STOP LINE EPOXY 18-INCH, WHITE

MARKING LINE EPOXY 4-INCH, WHITE

MARKING LINE EPOXY 4-INCH, 3' SEGMENT, 9' GAP, WHITE

40+00 41+00 42+00 43+00 44+00 45+00

MATCH LINE STA. 45+25.00

MARKING LINE EPOXY 4-INCH, WHITE

MARKING STOP LINE EPOXY 18-INCH, WHITE

MARKING LINE EPOXY 4-INCH, 3' SEGMENT, 9' GAP, WHITE

MARKING LINE EPOXY TRANSVERSE LINE 6-INCH

MARKING LINE EPOXY 8-INCH, WHITE

R/L 76th ST.

MARKING LINE EPOXY 4-INCH, 12.5' SEGMENT, 37.5' GAP, WHITE

MARKING LINE EPOXY 4-INCH, WHITE

MARKING LINE EPOXY 4-INCH, WHITE

MARKING LINE EPOXY 4-INCH, 3' SEGMENT, 9' GAP, WHITE

46+00 47+00 48+00 49+00 50+00 51+

MATCH LINE STA. 51+00.00

N

2

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 60	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\024501_PM.DWG
LAYOUT NAME - 02

PLOT DATE : 4/6/2022 9:23 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE STA. 51+00.00

MARKING LINE EPOXY 8-INCH, WHITE

MARKING LINE EPOXY 4-INCH, 3' SEGMENT, 9' GAP, WHITE

MARKING LINE EPOXY 4-INCH, WHITE

R/L 76th ST.

MARKING LINE EPOXY 4-INCH, 12.5' SEGMENT, 37.5' GAP, WHITE

76th ST. SB

76th ST. NB

52+00 53+00 54+00 55+00 56+00

MARKING LINE EPOXY 4-INCH, 3' SEGMENT, 9' GAP, WHITE

MARKING LINE EPOXY TRANSVERSE LINE 6-INCH

MARKING LINE EPOXY 8-INCH, WHITE

MARKING LINE EPOXY 4-INCH, WHITE

MATCH LINE STA. 56+75.00

2

MATCH LINE STA. 56+75.00

CONTINUE PAVEMENT MARKING TO END OF SECTION DISTURBED BY THE PROJECT. APPROXIMATELY STATION 66+00

MARKING LINE EPOXY 4-INCH, 12.5' SEGMENT, 37.5' GAP, WHITE

R/L 76th ST.

76th ST. SB

76th ST. NB

57+00 58+00 59+00 60+00 61+00 62+00

CONTINUE PAVEMENT MARKING TO END OF SECTION DISTURBED BY THE PROJECT. APPROXIMATELY STATION 60+00

MARKING LINE EPOXY 4-INCH, WHITE

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 61	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\024501_PM.DWG
LAYOUT NAME - 03

PLOT DATE : 4/6/2022 9:24 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

W LEON TERRACE

MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, WHITE (12.5' SEGMENT, 37.5' GAP)

MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, WHITE

MARKING CHEVRON EPOXY 24-INCH , WHITE (25' C-C)

RL STH 145

170

175

180

+75

+75

+50

+50

+45

+45

+25

+25

STH 145 NB

STH 145 SB

SB STH 145 OFF RAMP

MARKING REPLACE LINE WET REFLECTIVE EPOXY 4-INCH, WHITE

MARKING DIAGONAL EPOXY 12-INCH , WHITE (100' C-C)

NB STH 145 ON RAMP

N 76TH ST

MATCH LINE 182+00

MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, WHITE

SB STH 145 ON RAMP

2

N

RAMP TO NB 76TH ST

N 74TH ST

MARKING REPLACE LINE WET REFLECTIVE EPOXY 4-INCH, WHITE

MARKING DIAGONAL EPOXY 12-INCH , WHITE (100' C-C)

STH 145 BYPASS LANE

MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, WHITE

MARKING CHEVRON EPOXY 24-INCH , WHITE (25' C-C)

NB STH 145 ON RAMP

STH 145 NB

STH 145 SB

185

190

195

+85

+85

+23

+23

+45

+45

+90

+90

+95

+95

+65

+65

RL STH 145

MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, WHITE (3' SEGMENT, 9' GAP)

MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH, WHITE (12.5' SEGMENT, 37.5' GAP)

MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH, WHITE

W CALDWELL AVE

N 76TH ST

MATCH LINE 182+00

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 62	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\024501_PM 145.DWG
LAYOUT NAME - 01

PLOT DATE : 4/6/2022 9:25 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

GENERAL NOTES FOR TRAFFIC CONTROL

1. THE EXTACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
2. CONFLICTING TRAFFIC SIGNS SHALL BE REMOVED OR COVERED AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.
4. ALL TRAFFIC CONTROL DRUMS ALONG 76TH STREET ARE SPACED AT 25 FEET AND FLEXIBLE TUBULAR MARKERS ARE SPACED AT 15 FEET, UNLESS OTHERWISE NOTED.
5. FOR SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS, USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE ADJACENT PAVEMENT.
6. COMPLETE MEDIAN WORK ALONG 76TH STREET UTILIZING SINGLE LANE CLOSURES.
7. REMOVE CONFLICTING PAVEMENT MARKING BY WATER BLASTING.
8. DO NOT PLACE TUBULAR MARKERS ON NEW BRIDGE DECK OR CONCRETE APPROACH SLAB
9. NO TRAFFIC CONTROL SIGNS OR DEVICES TO BE PLACED WITHIN 50 FEET OF THE RAILROAD RIGHT-OF-WAY

TRAFFIC CONTROL DEVICE LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA
- PEDESTRIAN DETOUR ROUTE
- HMA PAVEMENT FROM PREVIOUS STAGE

TEMPORARY MARKING LEGEND

1. TEMPORARY MARKING LINE EPOXY 4-INCH YELLOW
2. TEMPORARY MARKING LINE EPOXY 4-INCH WHITE
3. TEMPORARY MARKING LINE EPOXY 4-INCH DOUBLE YELLOW
4. TEMPORARY MARKING LINE EPOXY 8-INCH WHITE
5. TEMPORARY MARKING STOP LINE EPOXY 18-INCH
6. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE
7. TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE YELLOW

PCMS MESSAGING

STH 145:
PLACE PCMS 7 DAYS PRIOR TO REMOVING EXISTING BRIDGE DECK AND PARAPET

FRAME 1	FRAME 2
STH 145 TO CLOSE	XXXDAY 8PM -6AM

FIXED MESSAGING

76TH ST:
PLACE FIXED MESSAGE BOARD 7 DAYS PRIOR TO STAGE 1

ROADWORK
BEGINNING
XXX-XX

PEDESTRIAN BRIDGES
PLACE FIXED MESSAGE BOARD 7 DAYS PRIOR TO STAGE 1

BRIDGE CLOSED
BEGINNING
XXX-XX

PLACE FIXED MESSAGE BOARD ON BARRICADE
AT BRIDGE DURING CONSTRUCTION

BRIDGE CLOSED
USE N 76 ST
BRIDGE

TRAFFIC CONTROL STAGING OVERVIEW

76TH STREET

STAGE 1:
TRAFFIC: INSIDE LANE AND SHOULDER CLOSURES
CONSTRUCTION: INSTALL TEMPORARY TRAFFIC SIGNALS AND CROSSOVERS

STAGE 2:
TRAFFIC: CROSSOVER NB 76TH TRAFFIC AS SHOWN ON PLANS
CONSTRUCTION: WORK ON B-40-255

STAGE 3:
TRAFFIC: CROSSOVER SB 76TH TRAFFIC AS SHOWN ON PLANS
CONSTRUCTION: WORK ON B-40-256

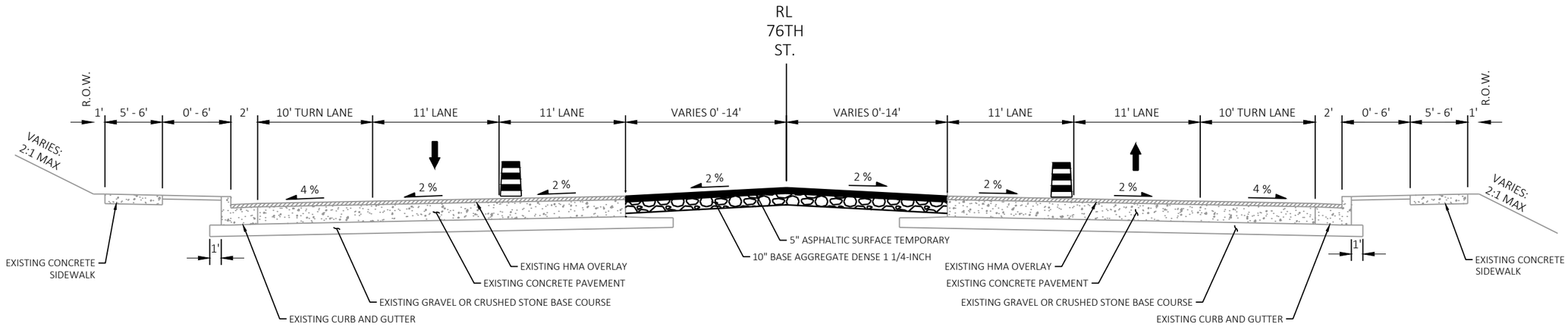
STAGE 4:
TRAFFIC: INSIDE LANE AND SHOULDER CLOSURES - SAME AS STAGE 1
CONSTRUCTION: REMOVE TEMPORARY TRAFFIC SIGNALS AND CROSSOVERS

STH 145

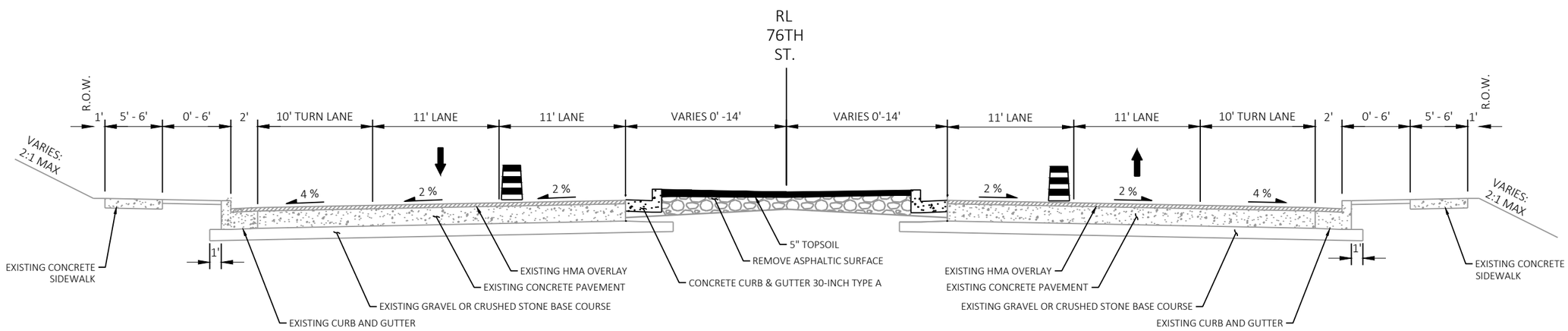
CONSTRUCTION: DEMO OF EXISTING STRUCTURE AND PEDESTRIAN BRIDGE CONCRETE SURFACE REPAIRS
TRAFFIC: SHOULDER CLOSURE TO COMPLETE PEDESTRIAN BRIDGE BEARING WORK. OVERNIGHT FULL CLOSURES BETWEEN 8PM AND 6AM. TO DEMO STRUCTURES.

STAGE 1:
TRAFFIC: SINGLE INSIDE LANE AND SHOULDER CLOSURE
CONSTRUCTION: PAINT STRUCTURE B-40-255 AND B-40-256 OVER INSIDE LANE

STAGE 2:
TRAFFIC: SINGLE OUTSIDE LANE CLOSURE
CONSTRUCTION: PAINT STRUCTURE B-40-255 AND B-40-256 OVER OUTSIDE LANE

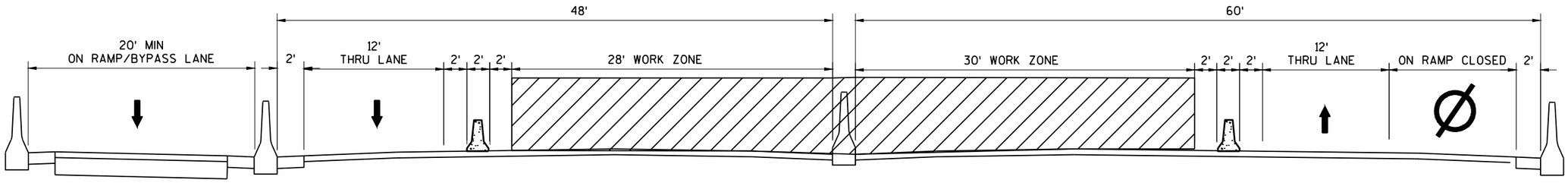


76TH ST (LOOKING NORTH)
STAGE 1
CROSSOVERS



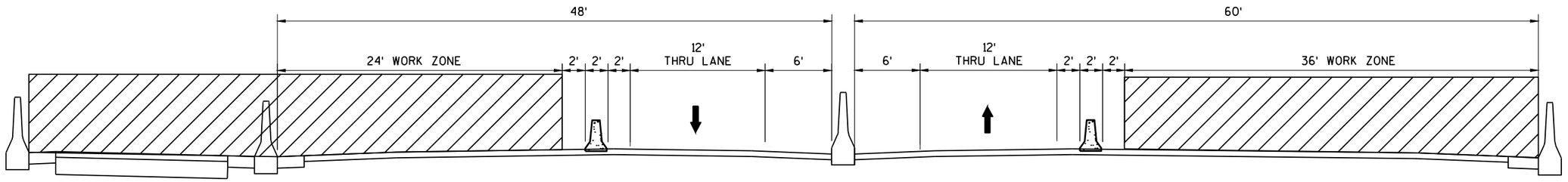
76TH ST (LOOKING NORTH)
STAGE 4
CROSSOVERS

2



STH 145 (LOOKING SOUTH)
STAGE 1
INSIDE LANES CLOSED
BOTH DIRECTIONS

WORK:
- CLOSE INSIDE LANE AND PUSH ALL TRAFFIC TO OUTSIDE LANE AND SHOULDER.
- TRAFFIC WILL BE SHIFTED SLIGHTLY ONTO THE OUTSIDE SHOULDER TO ALLOW FOR TEMPORARY CONCRETE BARRIER AND BUFFERS.
- PAINT STRUCTURE OVER INSIDE LANE AND SHOULDER.



STH 145 (LOOKING SOUTH)
STAGE 2
OUTSIDE LANE CLOSED
BOTH DIRECTIONS

WORK:
- CLOSE OUTSIDE LANE AND PUSH ALL TRAFFIC TO INSIDE LANE.
- PAINT STRUCTURE OVER REMAINING OUTSIDE LANE AND OUTSIDE SHOULDER.

CLOSE INSIDE LANE TO COMPLETE MEDIAN CONSTRUCTION. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY" FOR MORE DETAILS

IN STAGE 4 FOLLOW THE SAME TRAFFIC CONTROL TO REMOVE THE HMA CROSSOVERS. INSTALL REVERSE SLOPE CONCRETE CURB & GUTTER 30-INCH TYPE A. REMOVE 5-INCH ASPHALTIC SURFACE AND PLACE 5-INCHES OF TOPSOIL, EROSION MAT URBAN CLASS 1 TYPE B, FERTILIZER TYPE B, #40 SEED, AND TEMPORARY SEED.

W. GRANTOSA DR

W. VILLARD AVE

W. MEDFORD AVE

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

REMOVING CURB & GUTTER

R/L 76th ST

+99.02
11.07' LT

+75
2.00' LT

LIGHT POLE AND CONCRETE BASE TO BE REMOVED BY OTHERS

ADJUSTING INLET COVERS

+90
4.00' LT

+90
3.00' LT

REMOVING CONCRETE PAVEMENT

REMOVING CURB & GUTTER

LIGHT POLE AND CONCRETE BASE TO BE REMOVED BY OTHERS

UTILITY POLE TO BE REMOVED BY OTHERS

SAWING CONCRETE
2' OFFSET FROM FACE OF EXISTING CURB FACE

ADJUSTING MANHOLE COVERS

+60.73
12.49' RT

+75
1.30' RT

BEGIN LEFT TURN LANE
R3-20L
24"X36"

RIGHT TURN ONLY
R3-53R
24"X30"

35+00 36+00 37+00 38+00 39+00 40+00 41+00

N

WO1-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

REMOVING CURB & GUTTER

SEE CONSTRUCTION DETAILS FOR REPLACING CURB RAMP

R/L 76th ST

+75
11.81' LT

+25
5.50' LT

+25
0.50' LT

+40
11.81' LT

+35
11.17' RT

+25
1.50' RT

+25
2.00' RT

+10
11.81' RT

REMOVING CURB & GUTTER

REMOVING CONCRETE SIDEWALK

SAWING CONCRETE
2' OFFSET FROM FACE OF EXISTING CURB FACE

LIGHT POLE AND CONCRETE BASE TO BE REMOVED BY OTHERS

54+00 55+00 56+00 57+00 58+00 59+00

N

CONC.

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PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - 76TH ST	SHEET 66	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025101_TC.DWG
LAYOUT NAME - 01
PLOT DATE : 4/6/2022 9:27 AM
PLOT BY : PAYNE, GREGORY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

1. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY"
2. SEE SDD "TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE"
3. SEE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

W. PALMETTO AVE

N

MATCH LINE 33+75

28+00 29+00 30+00 31+00 32+00 33+00

R/L 76th ST

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

SEE NOTE 1 FOR ADVANCE WARNING SIGNS

2

MB

PLACE PCMS 200 FT SOUTH OF INTERSECTION. PLACE 7 DAYS PRIOR TO ROADWORK BEGINNING.

W. FAIRMOUNT AVE

SEE NOTE 2 FOR INTERSECTION WITH SINGLE LANE CLOSURE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BUS STOP TO REMAIN OPEN

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N

W. GRANTOSA DR

W01-4L

R9-9
30" X 18"
SIDEWALK CLOSED
TYPE II BARRICADE

R3-8LA
36"X30"
ONLY ONLY

R3-2
24"X24"

MATCH LINE 39+50

+25.81
35.75' LT

+62.12
4.34' LT

15'

R/L 76th ST

34+00 35+00 36+00 37+00 38+00 39+00

1

2

11'

+60.73
12.49' RT

+82.40
12.45' RT

+63.64
15.82' RT

+22.93
9.80' RT

+43.58
34.14' RT

MATCH LINE 33+75

SEE NOTE 2 FOR INTERSECTION WITH SINGLE LANE CLOSURE

15'

W. GRANTOSA DR

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

BEGIN RIGHT TURN LANE
R3-20R
24"X36"

R9-9
30" X 18"
SIDEWALK CLOSED
TYPE II BARRICADE

W. MEDFORD AVE

SEE NOTE 3 FOR SIDE ROAD CLOSURE

R9-9
30" X 18"
SIDEWALK CLOSED
TYPE II BARRICADE

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PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - 76TH ST	SHEET 67	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025103_TC.DWG
LAYOUT NAME - 01

PLOT DATE : 4/27/2022 8:52 AM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

MATCH LINE 39+50

W. VILLARD AVE

+86.97
6.34' LT

+02.07
-47.85' LT

+17.87
-35.74' LT

+36.43
-25.04' LT

+79.48
-25.28' LT

10'

11'

11'

11'

TEMPORARY TRAFFIC SIGNALS

40+00

41+00

42+00

43+00

44+00

45+00

15'

-77.39
0' RT

WO1-6
48" X 24"

TYPE III BARRICADE

RIGHT TURN ONLY
R3-53R
24"X30"

W. VILLARD AVE

CLOSE DRIVEWAY TEMPORARILY

ONLY
R3-8LF
36"X30"

+82.52
-35.83' LT

+59.80
-35.93' LT

10'

11'

11'

10'

11'

ONLY
R3-8LF
36"X30"

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

COORDINATE WITH CITY OF MILWAUKEE TO CLOSE BUS STOP

R/L 76th ST

W. FOND DU LAC AVE

W. FOND DU LAC AVE

MATCH LINE 45+25

2

R11-2B
48" X 30"

BRIDGE OUT

TYPE III BARRICADE

W. FOND DU LAC AVE

ONLY
R3-8LF
36"X30"

+66.80
-34.49' LT

+53.21
-42.93' LT

+16.84
-31.11' LT

+07.54
-19.90' LT

12'

12'

10'

11'

TEMPORARY TRAFFIC SIGNALS

46+00

47+00

48+00

49+00

50+00

51+

15'

R/L 76th ST

MATCH LINE 51+00

MATCH LINE 45+25

R9-9
30" X 18"

SIDEWALK CLOSED

TYPE II BARRICADE

W. CALDWELL AVE

R11-2
48" X 30"

ROAD CLOSED

TYPE III BARRICADE

WO1-6
48" X 24"

TYPE III BARRICADE

N

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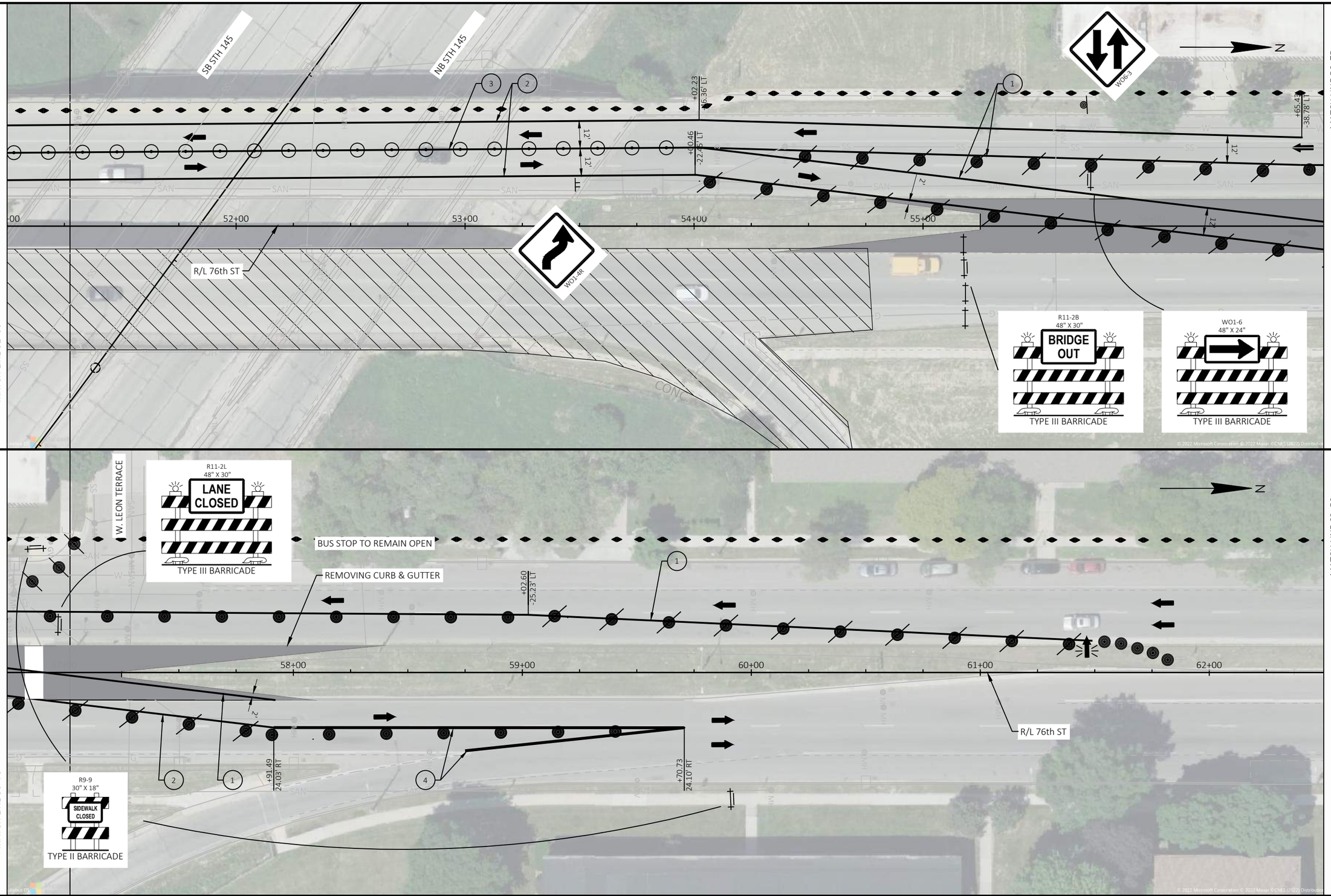
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - 76TH ST	SHEET 68	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025103_TC.DWG
LAYOUT NAME - 02

PLOT DATE : 4/27/2022 8:52 AM PLOT BY : WEIGAND, BEN PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



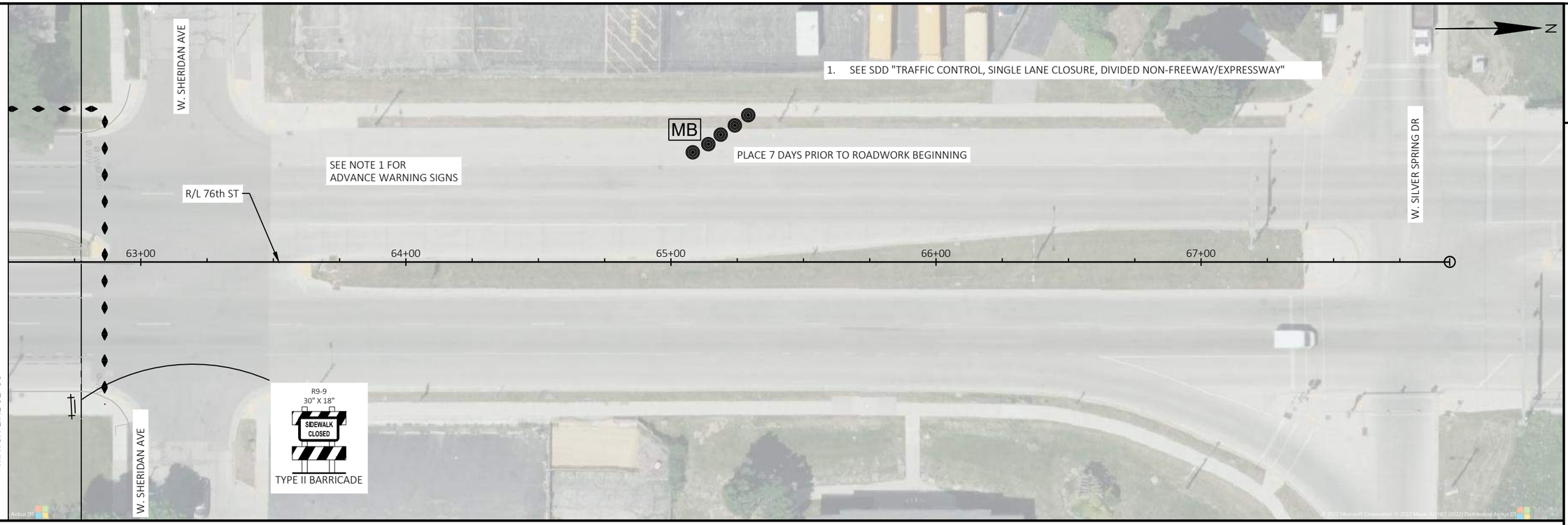
2

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - 76TH ST	SHEET 69	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025103_TC.DWG
LAYOUT NAME - 03

PLOT DATE : 4/6/2022 9:29 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



2

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - 76TH ST	SHEET 70	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025103_TC.DWG
LAYOUT NAME - 04

PLOT DATE : 4/6/2022 9:29 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

1. SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY"
2. SEE SDD "TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE"

W.PALMETTO AVE

W. FAIRMOUNT AVE

N

MATCH LINE 33+75

28+00 29+00 30+00 31+00 32+00 33+00

+16 14' RT

+65 24' RT

+91 24' RT

+86 3' RT

BEGIN LEFT TURN LANE
R3-20L
24"X36"

SEE NOTE 1 FOR ADVANCE WARNING SIGNS

SEE NOTE 2 FOR INTERSECTION WITH SINGLE LANE CLOSURE

BUS STOP TO REMAIN OPEN

WO1-4R

W. GRANTOSA DR

MATCH LINE 33+75

34+00 35+00 36+00 37+00 39+00

15' TYP

+25 26' RT

+68 36' RT

+78 36' RT

+04 -25' LT

+95 -13' LT

17'

12'

WO1-6
48" X 24"
TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24"X36"

R9-9
30" X 18"
SIDEWALK CLOSED
TYPE II BARRICADE

R3-2
24"X24"

RIGHT TURN ONLY
R3-53R
24"X30"

BEGIN LEFT TURN LANE
R3-20L
24"X36"

W. MEDFORD AVE

MATCH LINE 39+50

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PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3 - 76TH ST	SHEET 71	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025104_TC.DWG
LAYOUT NAME - 01

PLOT DATE : 4/6/2022 9:31 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W. VILLARD AVE

COORDINATE WITH CITY OF MILWAUKEE TO CLOSE BUS STOP

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

N

MATCH LINE 39+50

40+00 41+00 42+00 43+00 44+00 45+00

R/L 76th ST

15' TYP

MATCH LINE 45+25

2

1 2 4 5 3

+53 26' RT

12'

10'

+73 25' RT

TEMPORARY TRAFFIC SIGNALS

BUS STOP TO REMAIN OPEN

W06-3

W. VILLARD AVE

+42 24' RT

11'

10'

+47 34' RT

ONLY
R3-8LF
36"X30"

+25 24' RT

+30 34' RT

TEMPORARY TRAFFIC SIGNALS

W. FOND DU LAC AVE

W. FOND DU LAC AVE

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R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

W. FOND DU LAC AVE

R9-9
30" X 18"
SIDEWALK CLOSED
TYPE II BARRICADE

R11-2B
48" X 30"
BRIDGE OUT
TYPE III BARRICADE

N

MATCH LINE 51+00

46+00 47+00 48+00 49+00 50+00 51+

R/L 76th ST

MATCH LINE 45+25

5 4 3 2 6 7

TEMPORARY TRAFFIC SIGNALS

11'

10'

+15 12' RT

+45 16' RT

BEGIN TEMPORARY MARKING TAPE STA 50+00

12'

12'

+84 44' RT

+49 40' RT

W01-4L

W. CALDWELL AVE

ONLY
R3-8LF
36"X30"

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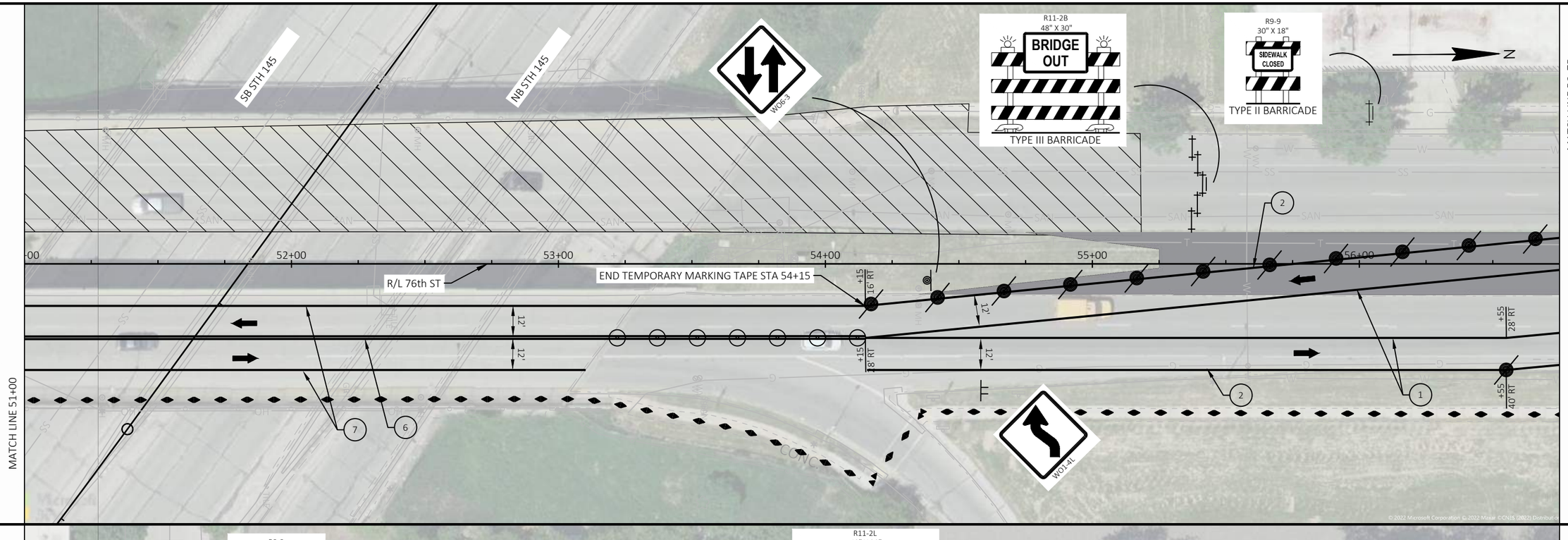
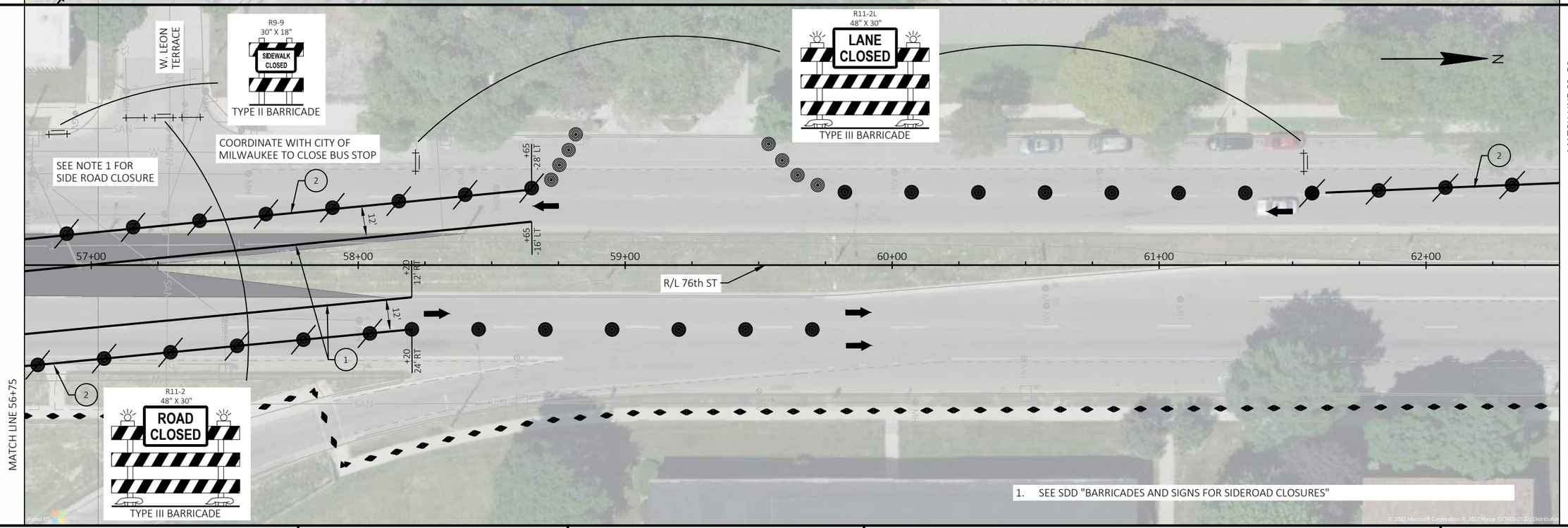
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3 - 76TH ST	SHEET 72	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025104_TC.DWG
LAYOUT NAME - 02

PLOT DATE : 4/6/2022 9:31 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:40 FT





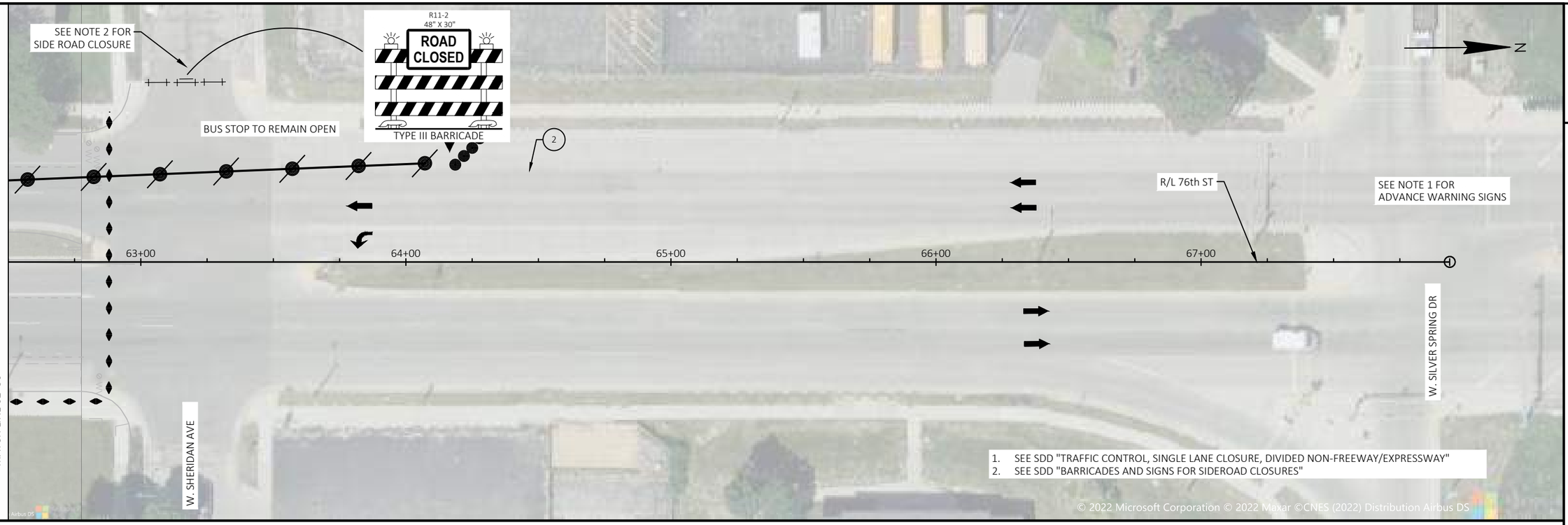
1. SEE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3 - 76TH ST	SHEET 73	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025104_TC.DWG
LAYOUT NAME - 03

PLOT DATE : 4/6/2022 9:31 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

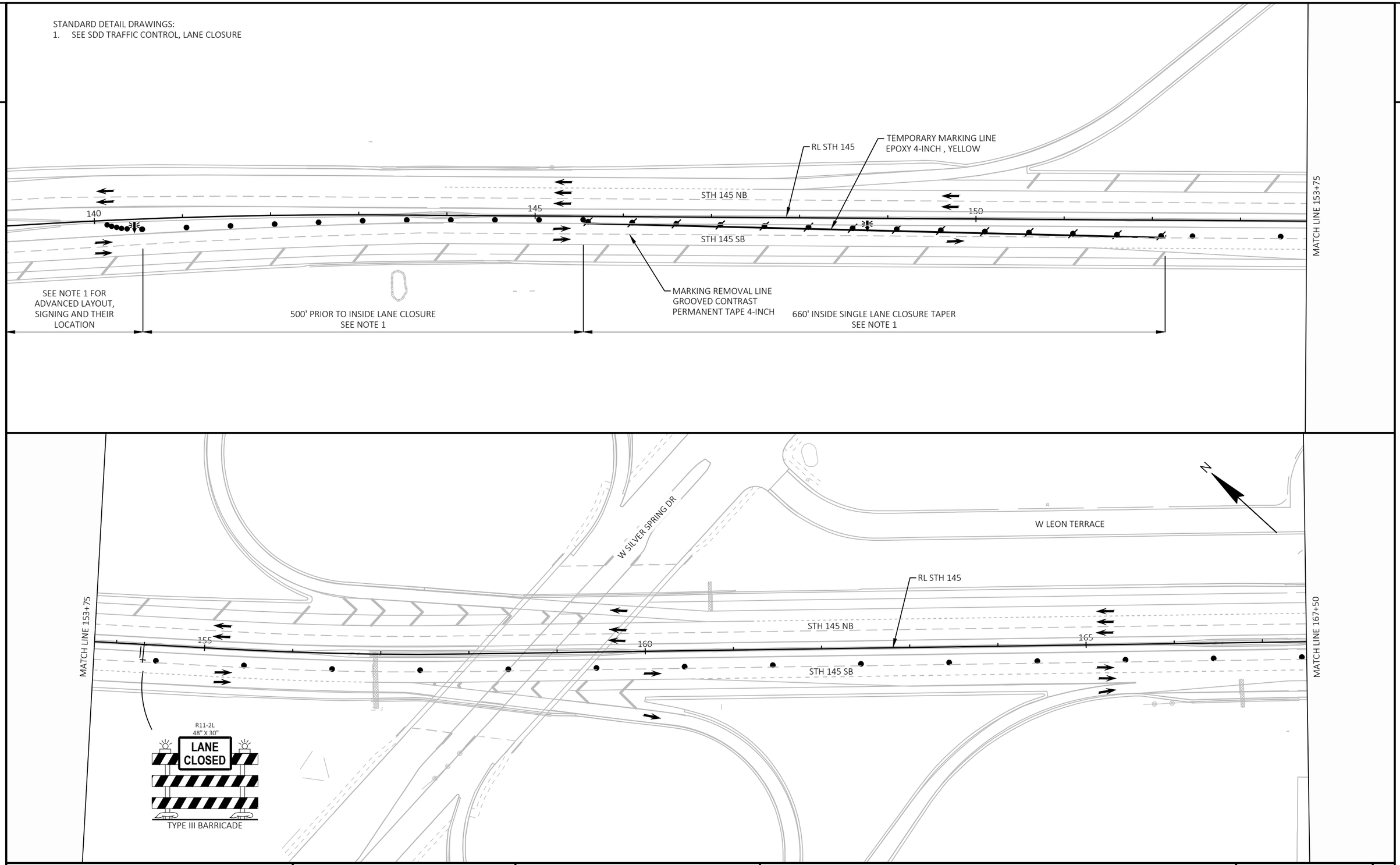


2

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 3 - 76TH ST	SHEET 74	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025104_TC.DWG
LAYOUT NAME - 04
PLOT DATE : 4/6/2022 9:31 AM
PLOT BY : PAYNE, GREGORY
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

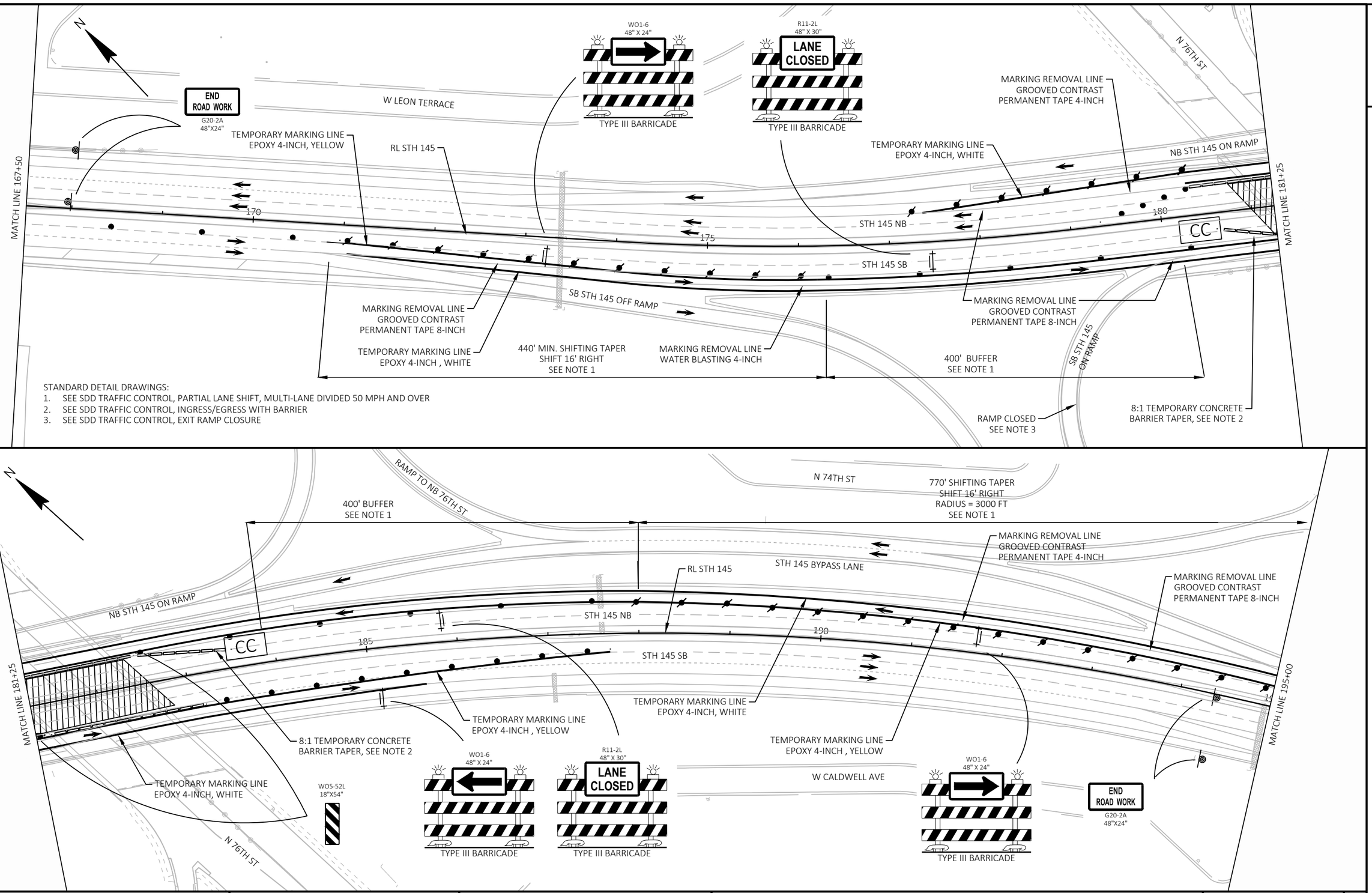
STANDARD DETAIL DRAWINGS:
1. SEE SDD TRAFFIC CONTROL, LANE CLOSURE



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - STH 145	SHEET 75	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025101_TC 145 1.DWG
LAYOUT NAME - 01
PLOT DATE : 4/6/2022 9:32 AM
PLOT BY : PAYNE, GREGORY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - STH 145	SHEET 76	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025101_TC 145 1.DWG
LAYOUT NAME - 02
PLOT DATE : 4/6/2022 9:33 AM
PLOT BY : PAYNE, GREGORY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

660' INSIDE SINGLE LANE CLOSURE TAPER
SEE NOTE 1

TEMPORARY MARKING LINE
EPOXY 4-INCH, WHITE

MARKING REMOVAL LINE
GROOVED CONTRAST
PERMANENT TAPE 8-INCH

MARKING REMOVAL LINE
GROOVED CONTRAST
PERMANENT TAPE 4-INCH

W LEON TERRACE

TEMPORARY MARKING LINE
EPOXY 4-INCH , YELLOW

MATCH LINE 195+00

MATCH LINE 208+75

NB STH 145

SB STH 145

SB STH 145 OFF RAMP

TEMPORARY MARKING LINE
EPOXY 4-INCH, YELLOW

RL STH 145

W GRANTOSA DR

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

500' PRIOR TO INSIDE LANE CLOSURE
SEE NOTE 1

W LEON TERRACE

LEFT LANE CLOSED 1000 FT
W20-5SC

MATCH LINE 208+75

NB STH 145

RL STH 145

W FOND DU LAC AVE

SB STH 145

W FOND DU LAC AVE

ROAD WORK AHEAD
W20-1A

STANDARD DETAIL DRAWINGS:
1. SEE SDD TRAFFIC CONTROL, LANE CLOSURE

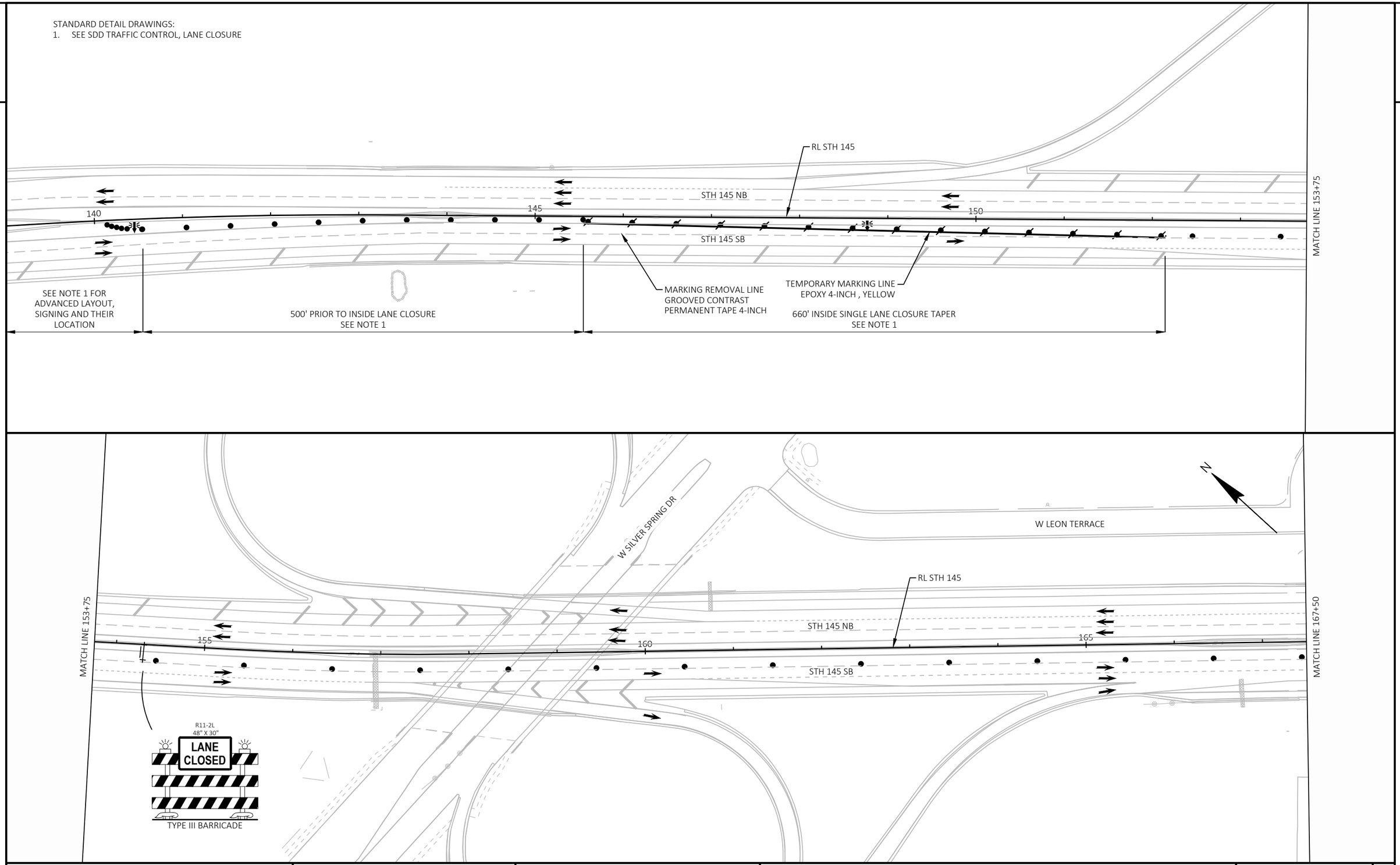
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 1 - STH 145	SHEET 77	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025101_TC 145 1.DWG
LAYOUT NAME - 03

PLOT DATE : 4/6/2022 9:33 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:100 FT

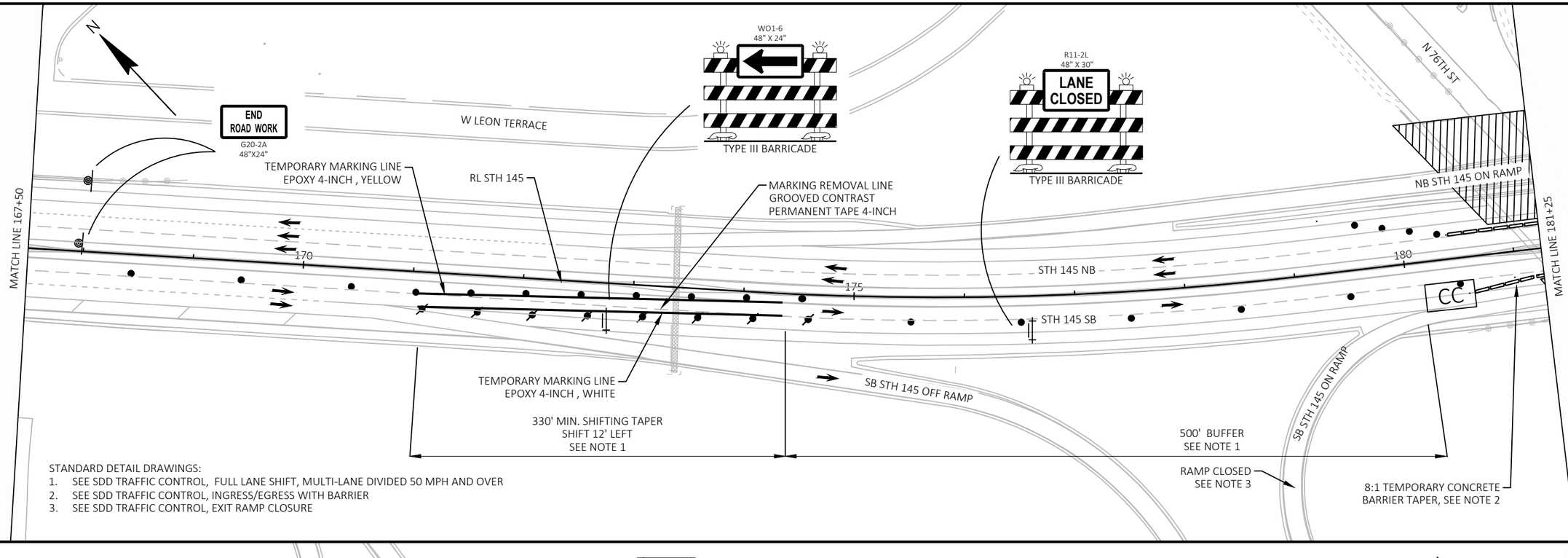
WISDOT/CADDS SHEET 44

STANDARD DETAIL DRAWINGS:
1. SEE SDD TRAFFIC CONTROL, LANE CLOSURE



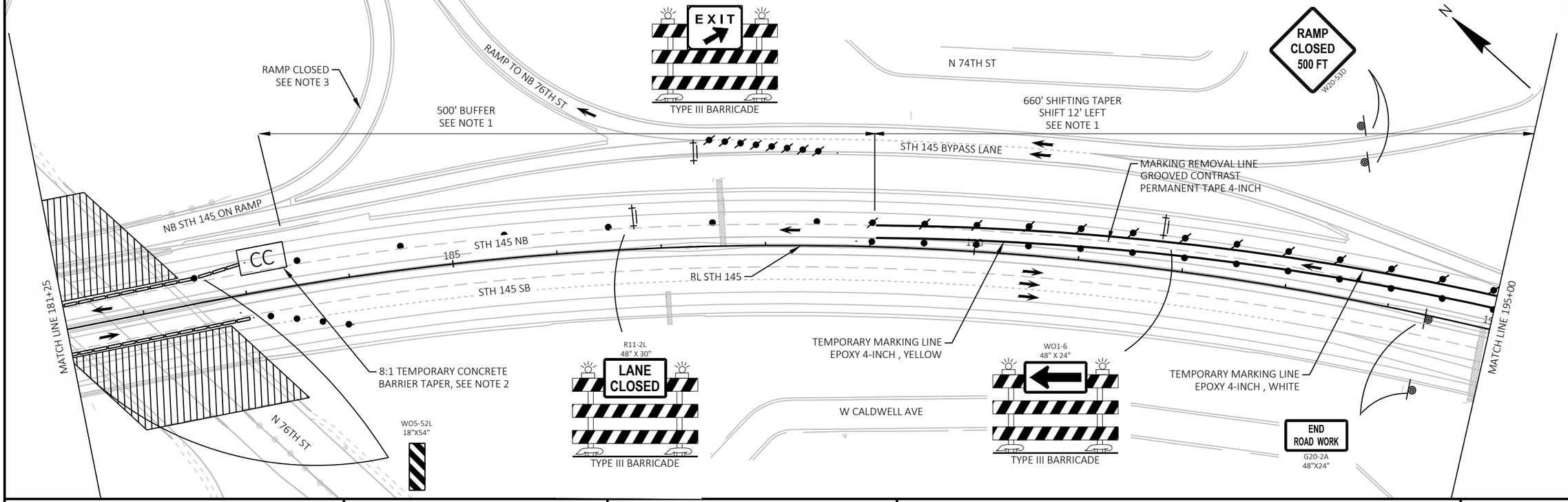
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - STH 145	SHEET 78	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025101_TC 145 2.DWG
LAYOUT NAME - 01
PLOT DATE : 4/6/2022 9:34 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:100 FT



STANDARD DETAIL DRAWINGS:

1. SEE SDD TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER
2. SEE SDD TRAFFIC CONTROL, INGRESS/EGRESS WITH BARRIER
3. SEE SDD TRAFFIC CONTROL, EXIT RAMP CLOSURE



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - STH 145	SHEET 79	E

2

660' INSIDE SINGLE LANE CLOSURE TAPER
SEE NOTE 1

MARKING REMOVAL LINE
GROOVED CONTRAST
PERMANENT TAPE 4-INCH

TEMPORARY MARKING LINE
EPOXY 4-INCH, WHITE

COVER EXISTING SIGNS

TEMPORARY MARKING LINE
EPOXY 4-INCH , YELLOW

W LEON TERRACE

MATCH LINE 195+00

MATCH LINE 208+75

NB STH 145

SB STH 145

SB STH 145 OFF RAMP

TEMPORARY MARKING LINE
EPOXY 4-INCH, YELLOW

W GRANTOSA DR

COVER EXISTING SIGNS

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

RL STH 145

500' PRIOR TO INSIDE LANE CLOSURE
SEE NOTE 1

LEFT LANE CLOSED 1000 FT
W20-5C

W LEON TERRACE

NB STH 145

RL STH 145

SB STH 145

W FOND DU LAC AVE

W FOND DU LAC AVE

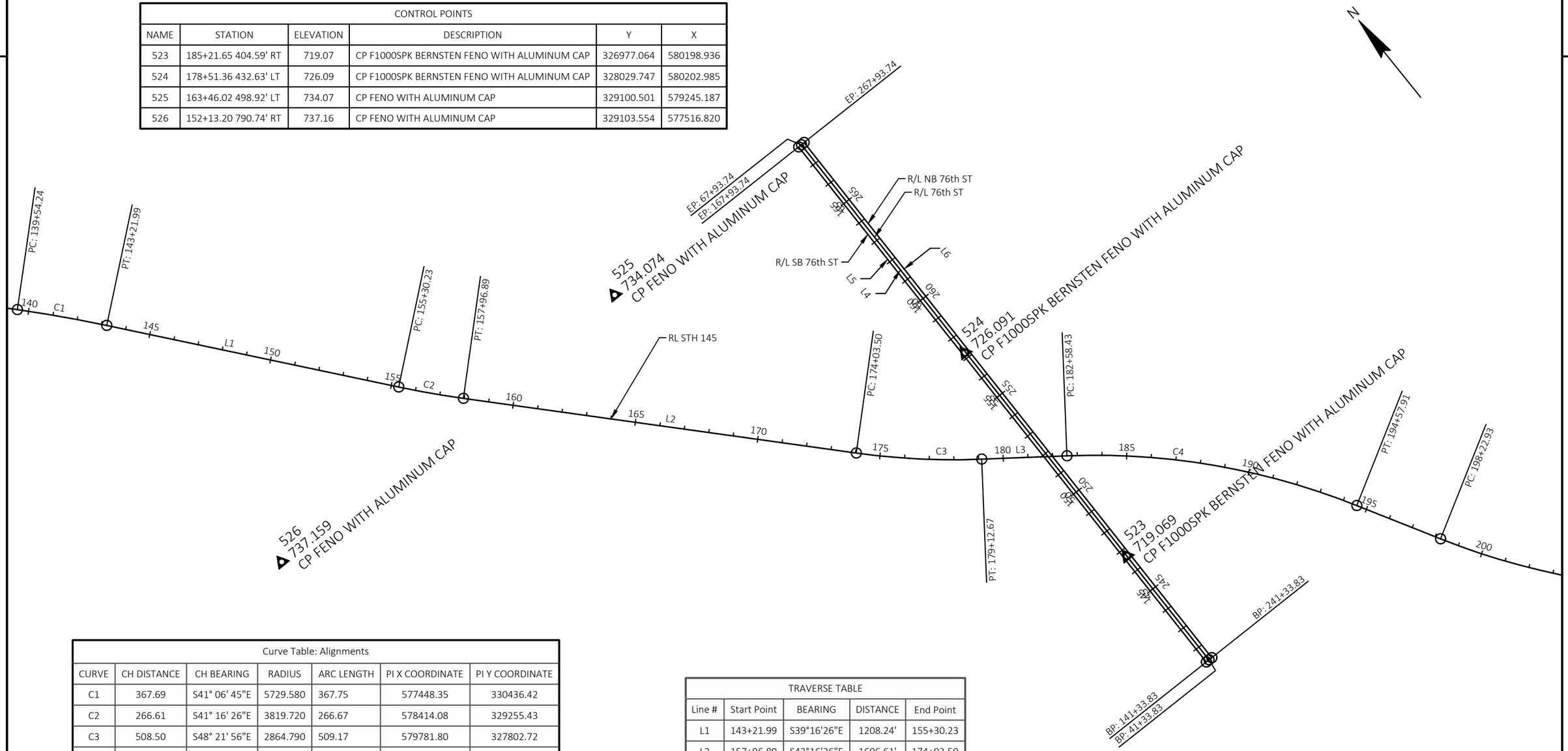
ROAD WORK AHEAD
W20-1A

STANDARD DETAIL DRAWINGS:
1. SEE SDD TRAFFIC CONTROL, LANE CLOSURE

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	TRAFFIC CONTROL STAGE 2 - STH 145	SHEET 80	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\025101_TC 145 2.DWG
LAYOUT NAME - 03
PLOT DATE : 4/6/2022 9:34 AM
PLOT BY : PAYNE, GREGORY
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

CONTROL POINTS					
NAME	STATION	ELEVATION	DESCRIPTION	Y	X
523	185+21.65 404.59' RT	719.07	CP F1000SPK BERNSTEN FENO WITH ALUMINUM CAP	326977.064	580198.936
524	178+51.36 432.63' LT	726.09	CP F1000SPK BERNSTEN FENO WITH ALUMINUM CAP	328029.747	580202.985
525	163+46.02 498.92' LT	734.07	CP FENO WITH ALUMINUM CAP	329100.501	579245.187
526	152+13.20 790.74' RT	737.16	CP FENO WITH ALUMINUM CAP	329103.554	577516.820



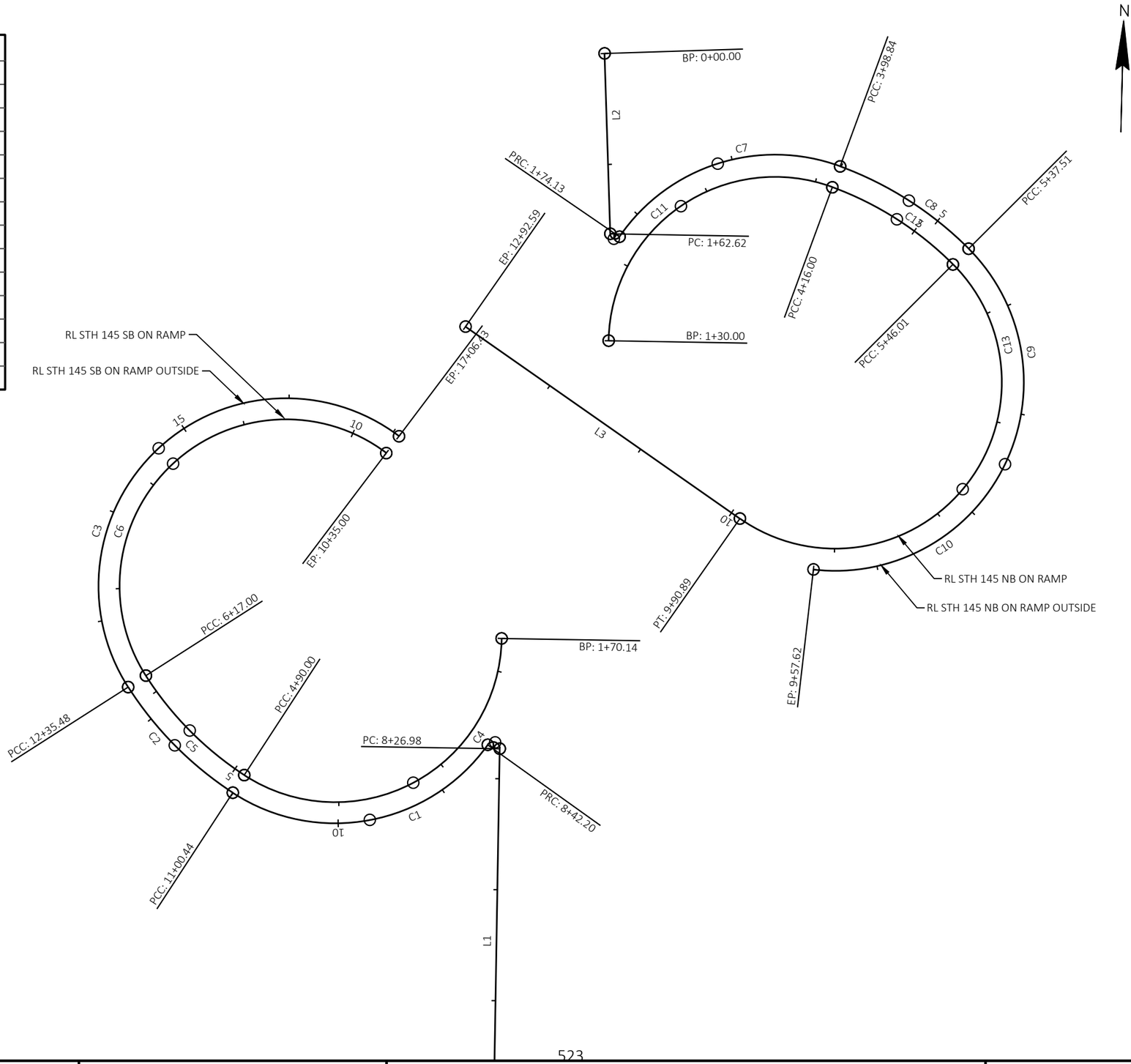
Curve Table: Alignments						
CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI X COORDINATE	PI Y COORDINATE
C1	367.69	S41° 06' 45"E	5729.580	367.75	577448.35	330436.42
C2	266.61	S41° 16' 26"E	3819.720	266.67	578414.08	329255.43
C3	508.50	S48° 21' 56"E	2864.790	509.17	579781.80	327802.72
C4	1190.74	S41° 27' 44"E	2864.790	1199.48	580753.66	327082.45

TRAVERSE TABLE				
Line #	Start Point	BEARING	DISTANCE	End Point
L1	143+21.99	S39°16'26"E	1208.24'	155+30.23
L2	157+96.89	S43°16'26"E	1606.61'	174+03.50
L3	179+12.67	S53°27'26"E	345.76'	182+58.43
L4	41+33.83	N0°26'41"E	2659.91'	67+93.74
L6	241+33.83	N0°26'41"E	2659.91'	267+93.74
L5	141+33.83	N0°26'41"E	2659.91'	167+93.74

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 81	E

Curve Table: Alignments						
CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI X COORDINATE	PI Y COORDINATE
C11	244.60	N55° 04' 00"E	150.000	286.00	580251.92	327847.71
C12	128.99	S57° 53' 48"E	300.000	130.01	580512.99	327754.29
C13	298.84	S39° 29' 00"W	150.000	444.88	581774.46	326513.92
C4	262.61	S61° 32' 03"W	150.000	319.86	580154.08	327095.85
C5	126.05	N45° 14' 57"W	300.000	127.00	579871.03	327277.03
C6	295.29	N46° 42' 39"E	150.000	418.00	579378.81	328031.48
C7	208.71	N71° 49' 14"E	170.000	224.71	580333.09	327839.91
C8	137.59	S57° 53' 48"E	320.000	138.67	580523.88	327771.64
C9	321.08	S25° 18' 41"W	170.000	420.10	580922.09	327380.09
C10	321.08	S25° 18' 41"W	170.000	420.10	580922.09	327380.09
C1	233.84	S78° 50' 53"W	169.000	258.24	580051.46	327138.98
C2	134.04	N45° 14' 57"W	319.000	135.04	579857.35	327263.23
C3	332.69	N46° 42' 39"E	169.000	470.95	579305.01	328109.82

TRAVERSE TABLE				
Line #	Start Point	BEARING	DISTANCE	End Point
L3	9+90.89	N55°33'00"W	301.70'	12+92.59
L2	0+00.00	S2°22'30"E	162.62'	1+62.62
L1	0+00.00	N0°26'41"E	826.98'	8+26.98



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	ALIGNMENT PLAN	SHEET 82	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\027212_AD.DWG
LAYOUT NAME - 01

PLOT DATE : 4/6/2022 9:37 AM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

MISCELLANEOUS REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	* 204.0100 REMOVING CONCRETE PAVEMENT SY	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	204.0165 REMOVING GUARDRAIL LF	REMARKS
0010	36+60	-	37+95	RT & LT	5	-	-	-	240	-	-	STAGE 1
0010	38+60	-	39+90	RT & LT	4	-	-	-	265	-	-	STAGE 1
0010	54+35	-	58+40	RT & LT	-	-	-	-	740	16	-	STAGE 1
0010	48+50		54+80	RT - NB	189	-	92	1,244	701	143	103	STAGE 2
0010	49+50	-	55+00	LT - SB	115	-	96	889	478	124	103	STAGE 3
0010	36+60		58+40	CROSSOVERS	-	950	-	-	-	-	-	STAGE 4
				TOTAL 0010	313	950	188	2,133	2,424	283	206	

BASE AGGREGATE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL	REMARKS
0010	36+60	-	37+95		77	1.6	STAGE 1
0010	38+60	-	39+90		73	1.5	STAGE 1
0010	54+35	-	58+40		407	8.2	STAGE 1
0010	48+50	-	Deck		46	1.0	STAGE 2
0010	Deck	-	54+79		52	1.1	STAGE 2
0010	49+50	-	Deck		52	1.1	STAGE 3
0010	Deck	-	55+00		43	0.9	STAGE 3
				TOTAL 0010	750	15.4	

CATEGORY	STATION	TO	STATION	LOCATION	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	REMARKS
0010	48+50	-	Deck	NB	95	
0010	Deck	-	54+79	NB	95	
0010	49+50	-	Deck	SB	95	
0010	Deck	-	55+00	SB	95	
				TOTAL 0010	380	

HMA ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.7224 HMA PAVEMENT 4 HT 58-28 S TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	REMARKS
0010	36+60	-	37+95		-	-	37	STAGE 1
0010	38+60	-	39+90		-	-	36	STAGE 1
0010	54+35	-	58+40		-	-	196	STAGE 1
0010	48+50	-	Deck		75	110	-	STAGE 2
0010	Deck	-	54+79		100	158	-	STAGE 2
0010	49+50	-	Deck		69	87	-	STAGE 3
0010	Deck	-	55+00		56	93	-	STAGE 3
				TOTAL 0010	300	448	269	

CURB AND SIDEWALK ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	* 416.0610 DRILLED TIE BARS EACH	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	REMARKS
0010	48+50	-	51+00	RT	118	352	-	570	-	-	352	2	STAGE 2
0010	48+50	-	51+00	RT	140	420	19	711	20	16	420	-	STAGE 2, TYPE 1 NOSE
0010	53+00	-	55+00	LT	105	313	18	722	20	-	313	-	STAGE 3
0010	53+00	-	55+00	LT	89	265	-	385	-	16	265	2	STAGE 3, TYPE 1 NOSE
0010	36+60	-	39+90	RT/LT	167	500	-	-	-	78	500	-	STAGE 4; TYPE 1 NOSE
0010	54+35	-	58+40	RT/LT	247	740	44	138	24	-	740	2	STAGE 4
				TOTAL 0010	866	2,590	81	2,526	64	110	2,590	6	

ADJUSTING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	REMARKS
0010			39+90	RT	-	2	STAGE 1 AND STAGE 4
0010			49+40	RT	1	-	STAGE 2
0010			49+40	RT	-	1	STAGE 2
0010			49+70	LT	1	-	STAGE 3
0010			49+90	LT	1	-	STAGE 3
0010			50+35	LT	1	-	STAGE 3
0010			50+40	LT	1	-	STAGE 3
0010			54+36	RT	1	-	STAGE 2
0010			54+10	LT	1	-	STAGE 3
0010			54+40	LT	1	-	STAGE 3
0010			54+36	RT	2	-	STAGE 1 AND STAGE 4
				TOTAL 0010	10	3	

TEMPORARY BARRIER ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	614.0905 CRASH CUSHIONS TEMPORARY EACH	REMARKS
0010	180+30	-	183+50	STH 145 STAGE 1	570	570	2	
0010	180+40	-	183+00	STH 145 STAGE 2	-	570	2	
				TOTAL 0010	570	1,140	4	

GUARDRAIL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	REMARKS
0010	48+90	-	50+30	NB 76TH	38	40	1	STAGE 2
0010	53+60	-	54+90	SB 76TH	38	40	1	STAGE 3
				TOTAL 0010	75	79	2	

FENCING ITEMS

CATEGORY	LOCATION	204.0170 REMOVING FENCE LF	616.0206 FENCE CHAIN LINK 6-FT LF	REMARKS
0010	NE	184	184	
0010	NW	20	20	
0010	MEDIAN	56	56	
0010	SE	16	16	
0010	SW	160	160	
	TOTAL 0010	436	436	

EROSION CONTROL ITEMS

CATEGORY	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	REMARKS
0010	PROJECT WIDE	788	788	2	1	900	2	2	5	24	
0010	CROSSOVER	---	---	1	---	925	---	---	8	---	
0010	UNDISTRIBUTED	79	79	---	---	183	---	---	---	---	
	TOTAL 0010	867	867	3	1	2,008	2	2	13	24	

LANDSCAPING ITEMS

CATEGORY	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	REMARKS
0010	NB 76th	---	481	0.3	9	13	10.9	
0010	SB 76th	---	432	0.3	8	12	9.8	
0010	Crossover	925	---	0.6	17	25	20.8	5-INCHES OF TOPSOIL
0010	Undistributed	93	92	0.2	4	5	4.2	
	TOTAL 0010	1,018	1,005	1.4	38	55	45.7	

PROPOSED PAVEMENT MARKING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH LF	646.1041.S MARKING REPLACE LINE WET REFLECTIVE EPOXY 4-INCH LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH LF	646.3020 MARKING LINE EPOXY 8-INCH LF	646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH LF	646.5120 MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.7220 MARKING CHEVRON EPOXY 24-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.8220 MARKING ISLAND NOSE EPOXY EACH	REMARKS
0010	29+00	-	60+00	76TH ST NB	1,475	-	-	436	-	1	120	-	-	40	2	
0010	29+00	-	60+00	76TH ST SB	1,160	-	-	383	-	-	116	-	-	40	-	
0010	145+00	-	186+00	STH 145 EB	-	480	255	-	1,150	-	-	-	388	-	-	
0010	177+00	-	209+00	STH 145 WB	-	1,580	345	-	262	-	-	500	115	-	-	
				TOTAL 0010	2,635	2,060	600	819	1,412	1	236	500	503	80	2	

TRAFFIC CONTROL ITEMS

STATION	TO	STATION	LOCATION	NUMBER OF DEVICES	643.0300 TRAFFIC CONTROL DRUMS DAY	NUMBER OF DEVICES	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAY	NUMBER OF DEVICES	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	NUMBER OF DEVICES	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	NUMBER OF DEVICES	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	NUMBER OF DEVICES	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	NUMBER OF DEVICES	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	REMARKS
STAGE 1 - 76TH ST																						
35+00	-	41+50	LT	23	230	-	-	1	10	-	-	-	-	-	-	-	-	2	20	-		
41+50	-	46+00	LT	54	540	-	-	1	10	-	-	-	-	-	-	-	-	2	20	-		
46+00	-	62+25	LT	93	930	-	-	2	20	-	-	4	40	11	110	4	40	9	90	-		
			SIDEROADS - LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	60	-		
28+25	-	34+00	RT	44	440	-	-	1	10	-	-	2	20	11	110	2	20	8	80	-		
35+00	-	40+90	RT	32	320	-	-	2	20	-	-	2	20	-	-	2	20	3	30	-		
41+75	-	44+20	RT	22	220	-	-	1	10	-	-	-	-	-	-	-	-	2	20	-		
46+00	-	58+80	RT	50	500	-	-	2	20	-	-	2	20	-	-	2	20	4	40	-		
			SIDEROADS - RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	80	-		
			SUB TOTAL	318	3180	-	-	10	100	-	-	10	100	22	220	10	100	44	440	-		
STAGE 2 - 76TH ST																						
35+00	-	41+50	LT	1	25	1	25	-	-	20	20	-	-	1	25	-	-	2	50	-		
41+50	-	46+00	LT	15	375	-	-	-	-	18	18	-	-	-	-	-	-	2	50	-		
46+00	-	62+25	LT	61	1525	1	25	2	50	50	50	4	100	29	725	1	25	10	250	-		
			SIDEROADS - LT	-	-		-	-	-	-	-	-	-	-	-	-	-	6	150	-		
28+25	-	34+00	RT	36	900	-	-	1	25	-	-	2	50	8	200	1	25	8	200	-		
35+00	-	40+90	RT	40	1000	2	50	10	250	-	-	10	250	11	275	-	-	12	300	-		
41+75	-	44+20	RT	-	-	-	-	10	250	-	-	4	100	-	-	-	-	2	50	-		
46+00	-	58+80	RT	35	875	3	75	8	200	-	-	-	-	9	225	-	-	10	250	-		
			SIDEROADS - RT	-	-	-	-	2	50	-	-	-	-	-	-	-	-	6	150	-		
			SUB TOTAL	188	4700	7	175	33	825	88	88	20	500	58	1450	2	50	58	1450	-		
STAGE 3 - 76TH ST																						
35+00	-	41+50	LT	6	150	1	25	5	125	-	-	6	150	6	150	-	-	3	75	-		
41+50	-	46+00	LT	6	150	-	-	10	250	-	-	12	300	-	-	-	-	2	50	-		
46+00	-	62+25	LT	43	1075	2	50	17	425	-	-	22	550	23	575	1	25	14	350	-		
			SIDEROADS - LT	-	-	-	-	6	-	-	-	4	100	-	-	-	-	6	150	-		
28+25	-	34+00	RT	34	850	-	-	-	-	-	-	-	-	11	275	1	25	8	200	-		
35+00	-	40+90	RT	45	1125	2	50	3	75	-	-	6	150	17	425	-	-	8	200	-		
41+75	-	44+20	RT	12	300	-	-	-	-	15	15	-	-	-	-	-	-	1	25	-		
46+00	-	58+80	RT	21	525	-	-	-	-	28	28	-	-	14	350	-	-	6	150	-		
			SIDEROADS - RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	150	-		
			SUB TOTAL	167	4175	5	125	41	875	43	43	50	1250	71	1775	2	50	54	1350	-		
STAGE 4 - 76TH ST																						
28+25	-	62+25	LT & RT	318	3180	-	-	10	100	-	-	10	100	22	220	10	100	44	440	-		COPY STAGE 1
			SUB TOTAL	318	3180	-	-	10	100	-	-	10	100	22	220	10	100	44	440	-		
STAGE 1 - STH 145																						
177+00	-	214+00	LT	70	700	-	-	3	30	-	-	6	60	37	370	2	20	11	110	-		
140+00	-	178+00	RT	75	750	-	-	4	40	-	-	8	80	25	250	2	20	12	120	-		
EXIT RAMP CLOSURE				20	200	-	-	4	40	-	-	4	40	-	-	-	-	10	100	3		
			SUB TOTAL	165	1650	-	-	11	110	-	-	18	180	62	620	4	40	33	330	3		
STAGE 2 - STH 145																						
179+00	-	214+00	LT	82	820	-	-	4	40	-	-	8	80	36	360	2	20	14	140	-		
140+00	-	184+00	RT	76	760	-	-	3	30	-	-	6	60	22	220	2	20	11	110	-		
EXIT RAMP CLOSURE				40	400	-	-	8	80	-	-	8	80	-	-	-	-	20	200	6		
			SUB TOTAL	198	1980	-	-	15	150	-	-	22	220	58	580	4	40	45	450	6		
			TOTAL 0010		18,865		300		2,160	131	131		2,350		4,865		380		4,460	9		

3

REMOVING PAVEMENT MARKING

CATEGORY	STATION	TO	STATION	LOCATION	646.9010 MARKING REMOVAL LINE WATER BLASTING 4-INCH LF	646.9055 MARKING REMOVAL LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH LF	646.9110 MARKING REMOVAL LINE WATER BLASTING 8-INCH LF	646.9155 MARKING REMOVAL LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH LF	646.9210 MARKING REMOVAL LINE WATER BLASTING WIDE LF	646.9310 MARKING REMOVAL SPECIAL MARKING WATER BLASTING EACH	REMARKS
STAGE 1 AND 2 - 76 TH ST											
0010	29+00	-	60+00	76 ST - LANE LINES	508	-	-	-	120	1	
0010	29+00	-	60+00	76 ST - EDGELINES	636	-	-	-	-	-	
0010	39+00	-	66+00	76 ST - LANE LINES	433	-	73	-	116	-	
0010	39+00	-	66+00	76 ST - EDGELINES	906	-	310	-	-	-	
STAGE 1 - STH 145											
0010	171+00	-	196+00	STH 145	-	1,333	-	851	-	-	
STAGE 2 - STH 145											
0010	171+00	-	194+00	STH 145	-	220	-	-	-	-	
				TOTAL 0010	2,483	1,553	383	851	236	1	

MMSD MANHOLE ITEMS

LOCATION	SPV.0060.150 SPECIAL (150. ADJUSTING MMSD MANHOLE COVER) EACH	SPV.0060.151 SPECIAL (151. RECONSTRUCTING MMSD MANHOLE) EACH	REMARKS
STA 49+88	1	-	
STA 54+68	1	-	
STA 53+81	-	1	
TOTAL 0030	2	1	

3

SAWING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF	* 690.0250 SAWING CONCRETE LF	REMARKS
0010	36+60	-	37+95	RT & LT	-	240	STAGE 1 76TH
0010	38+60	-	39+90	RT & LT	-	265	STAGE 1 76TH
0010	54+35	-	58+40	RT & LT	-	740	STAGE 1 76TH
0010	48+50	-	54+80	RT - NB	20	849	STAGE 2 76 TH
0010	49+50	-	55+00	LT - SB	20	626	STAGE 3 76TH
				TOTAL 0010	40	2,720	

LOCATION	SPV.0060.200 SPECIAL (200. ADJUSTING WATER BOXES) EACH	REMARKS
STA 249+39	1	
STA 253+55	1	
TOTAL 0020	2	

TEMPORARY PAVEMENT MARKING

STATION	TO	STATION	LOCATION	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH LF		649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH LF		649.0220 TEMPORARY MARKING LINE EPOXY 8-INCH LF	649.0820 TEMPORARY MARKING STOP LINE EPOXY 18-INCH LF	REMARKS
STAGE 1 - 76TH ST				WHITE	YELLOW	WHITE	YELLOW			
46+00	-	62+25	LT	245	-	-	-	-	-	
28+25	-	34+00	RT	245	-	-	-	-	-	
			SUB TOTAL	490	-	-	-	-	-	
STAGE 2 - 76TH ST										
35+00	-	41+50	LT	275	279	-	-	199	21	
41+50	-	46+00	LT	256	278	-	-	189	30	
46+00	-	62+25	LT	1895	2291	-	-	200	-	
28+25	-	34+00	RT	245	-	-	-	-	-	
35+00	-	40+90	RT	653	132	-	-	-	-	
46+00	-	58+80	RT	203	102	-	-	255	-	
			SUB TOTAL	3527	3082	-	-	843	51	
STAGE 3 - 76TH ST										
35+00	-	41+50	LT	242	133	-	-	-	-	
46+00	-	62+25	LT	537	167	-	-	-	-	
28+25	-	34+00	RT	697	-	-	-	-	-	
35+00	-	40+90	RT	283	807	-	-	126	-	
41+75	-	44+20	RT	225	424	-	-	113	21	
46+00	-	58+80	RT	895	1685	637	640	276	29	
			SUB TOTAL	2879	3216	637	640	515	50	
STAGE 1 - STH 145										
177+00	-	214+00	LT	1844	1553	-	-	-	-	
140+00	-	178+00	RT	1462	1667	-	-	-	-	
			SUB TOTAL	3306	3220	-	-	-	-	
STAGE 2 - STH 145										
179+00	-	214+00	LT	665	1327	-	-	-	-	
140+00	-	184+00	RT	330	990	-	-	-	-	
			SUB TOTAL	995	2317	-	-	-	-	
			TOTAL 0010	11,197	11,835	637	640	1,358	101	

3

EARTHWORK

DIVISION	FROM/TO STATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (6) FACTOR 1.20	MASS ORDINATE +/- (7)	WASTE	208.0100 BORROW
STAGE 1										
SOUTH CROSSOVER	35+00/40+00	106	0	0	106	0	0	106	106	0
NORTH CROSSOVER	55+00/59+00	290	0	0	290	0	0	290	290	0
DIVISION 1 SUBTOTAL		396	0	0	396	0	0	396	396	0
STAGE 2										
SOUTH OF NB BRIDGE	48+50/50+50	94	0	77	17	14	17	76	76	0
NORTH OF NB BRIDGE	53+00/55+00	101	0	86	15	13	15	85	85	
DIVISION 2 SUBTOTAL		195	0	163	32	27	32	161	161	0
STAGE 3										
SOUTH OF SB BRIDGE	49+50/51+00	87	0	71	16	13	16	71	71	0
NORTH OF SB BRIDGE	53+00/55+00	84	0	70	14	12	14	70	70	0
DIVISION 3 SUBTOTAL		171	0	141	30	25	30	141	141	0
GRAND TOTAL		762	0	304	458	52	62	698	698	0

NOTES:
(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(3) EBS EXCAVATION TO BE BACKFILLED WITH BAD 1 1/4-INCH MATERIAL. EBS IS NOT EXPECTED.
(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(6) EXPANDED FILL FACTOR = 1.2
(7) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

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CITY UNDERGROUND CONDUIT
MISCELLANEOUS QUANTITIES

LOCATION			204.0100 REMOVING PAVEMENT SY	320.0155 CONCRETE BASE 9-INCH SY	465.0105 ASPHALTIC SURFACE TONS	416.0620 DRILLED DOWEL BARS EACH	416.0610 DRILLED TIE BARS EACH	690.025 SAWING CONCRETE LF	SPV.0060.400 ADJUSTING CUC MANHOLE COVER EACH	SPV.0060.425 INSTALLING CONDUIT INTO EXISTING MANHOLE EACH	SPV.0090.404 4-4" CONDUIT CEMENT ENCASED DB-60 LF	SPV.0060.401 UNDERDECK UTILITY STRUCTURE B-40-255 CITY OF MILWAUKEE COMMUNICATIONS CONDUIT EACH
MANHOLE 5493	-	STA 56+79.25, 23.0' LT							1	1		
MANHOLE 5493	TO	STA 55+00.00, 23.0' LT	79	79	16	141	71	176			176	
STA 55+00.00, 23.0' LT		5' NORTH OF ABUTMENT									141	
5' NORTH OF ABUTMENT	TO	5' SOUTH OF ABUTMENT										1
5' NORTH OF ABUTMENT	TO	MANHOLE 5494									15	
MANHOLE 5212	-	STA 50+43.36, 23.0' LT							1	1		
TOTAL			79	79	16	141	71	176	2	2	332	1

TYPE II PERMANENT SIGNING 1360-13-70

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	638.2602 REMOVING SIGNS TYPE II (EA)	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0622 POSTS WOOD 4" X 6" X 22' (EA)	634.0814 POSTS TUBULAR STEEL 2 X 2-INCH X 14-FT	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	D12-2A(5)		78	X	48	26.000			1	2		2			
2	M1-94	N. 76TH ST						1							MOVE SIGN FROM OLD BRIDGE TO NEW BRIDGE PARAPET. MOUNTING INCIDENTAL. SEE DETAIL
3	M1-94	N. 76TH ST						1							MOVE SIGN FROM OLD BRIDGE TO NEW BRIDGE PARAPET. MOUNTING INCIDENTAL. SEE DETAIL
4	W5-52R							1		1	1				4 FOOT MOUNTING HEIGHT
5	W4-3R(5)		48	X	48		16.000		1	1		2			
6	J2-1(2M)		24	X	57	9.500			1	1	1				
	M3-1		24	X	12										
	M1-6	STH 145	24	X	24										
	M5-1R		21	X	21										
7	R4-4(2M)		36	X	30	7.500			1	1			2		
8	R7-1L(2M)		24	X	30	5.000								7	
9	W13-3B(2M)	25 MPH	36	X	60		15.000		1	2		1			
10	D1-65	FOND DU LAC AVE						1		2			2		
		NEXT SIGNAL													
11	W11-2(2S)		30	X	30		6.250		1						MOUNT ON LIGHT POLE
11A	W16-7L(2S)		24	X	12		2.000		1					11	
12	J3-1(2S)		24	X	57	9.500			1	1	1				
	M3-3		24	X	12										
	M1-6	STH 145	24	X	24										
	M6-2		21	X	21										
13	J2-1(2M)		24	X	57	9.500			1	1	1				
	M3-1		24	X	12										
	M1-6	STH 145	24	X	24										
	M5-1R		21	X	21										
14	W13-3B(2M)	25 MPH	36	X	60		15.000		1	2		1			
15	W11-2(2S)		30	X	30		6.250		1						MOUNT ON LIGHT POLE
15A	W16-7L(2S)		24	X	12		2.000		1					15	
16	J3-1(2S)		24	X	57	9.500			1	1	1				
	M3-1		24	X	12										
	M1-6	STH 145	24	X	24										
	M6-2		21	X	21										
17	R7-1D(2M)		24	X	30	5.000			1	1			1		
18	W1-8(2S)		18	X	24		3.000		1	1	1				4 FOOT MOUNTING HEIGHT
19	R4-4(2M)		36	X	30	7.500			1	1			1		
20	D1-2	WAUWATOSA AHEAD ARROW DOWNTOWN MILWAUKEE ARROW RIGHT							1	3			3		
21	J3-1(2M)		24	X	57	9.500			1						MOUNT ON LIGHT POLE
	M3-3		24	X	12										
	M1-6	STH 145	24	X	24										
	M6-2		21	X	21										
22															
		UNDISTRIBUTED						2	2	2	2				
		TOTALS				98.500	65.500	6	20	23	8	6	9		

SHEET 1 OF 1

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES – PERMANENT SIGNING	SHEET:	E

3

3

ESTIMATE OF TOTAL QUANTITIES ; STREET LIGHTING
MILWAUKEE COUNTY

	Std.Bid Item No.	Description	Unit	Quantity
-	650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS	EACH	1
-	652.0615	CONDUIT SPECIAL 3-INCH	LF	4,215
-	652.0230	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH	LF	150
-	652.0235	CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	LF	135
-	654.0105	CONCRETE BASES TYPE 5	EACH	15
-	657.0255	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	EACH	19
-	SPV.0060.302	PULL BOXES 13-INCH x 24-INCH x 24-INCH	EACH	43
-	SPV.0060.320	POLES TYPE 25-AL-BD	EACH	19
-	SPV.0060.347	LUMINAIRE ARMS SINGLE MEMBER 8-Ft. (SPECIAL)	EACH	34
-	SPV.0060.371	INSTALLING CITY FURNISHED LUMINAIRE LED UTILITY 2	EACH	34
-	SPV.0060.399	UTILITY LINE OPENING (ULO)	EACH	1
-				

ALL ITEMS CATEGORY 0050

(THESE QUANTITIES DO NOT INCLUDE THE MATERIALS IN/ON THE BRIDGE) SUCH AS: CONDUIT, JUNCTION BOXES, AND LIGHT POLE ANCHORAGE

STH 181 (N. 76TH STREET)
MILWAUKEE COUNTY
CATEGORY 0010
COMMUNICATIONS

CONDUIT

FROM	TO		652.0405 CONDUIT REINFORCED THERMOSETTING RIGID 2-INCH L.F.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
I/C CV102	I/C CV103		344	344
		TOTAL	344	344

I/C PULL BOXES & VAULTS

STRUCTURE NO.	LOCATION^		673.0105 COMMUNICATION VAULT TYPE 1 EACH
I/C CV102	102+36.14, 9.1' LT		1
I/C CV103	105+85.43, 5.9' LT		1
		TOTAL	2

^ FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

FIELD SYSTEM INTEGRATOR

LOCATION	670.0100 FIELD SYSTEM INTEGRATOR L.S.	670.0200 ITS DOCUMENTATION L.S.	678.0500 COMMUNICATION SYSTEM TESTING L.S.
PROJECT ID: 1360-13-70	1	1	1
TOTAL	1	1	1

REMOVE CABLE AND WIRE

REMOVE FROM	REMOVE TO		674.0300 REMOVE CABLE LF
I/C CV103	I/C CV101		906
		TOTAL	906

RE-INSTALL CABLE AND WIRE

INSTALL FROM	INSTALL TO		674.0400 REINSTALL CABLE L.F.
I/C VC101	I/C CV103		906
		TOTAL	906

FIBER OPTIC SPLICE

LOCATION		678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
I/C CV103		1	36
	TOTAL	1	36

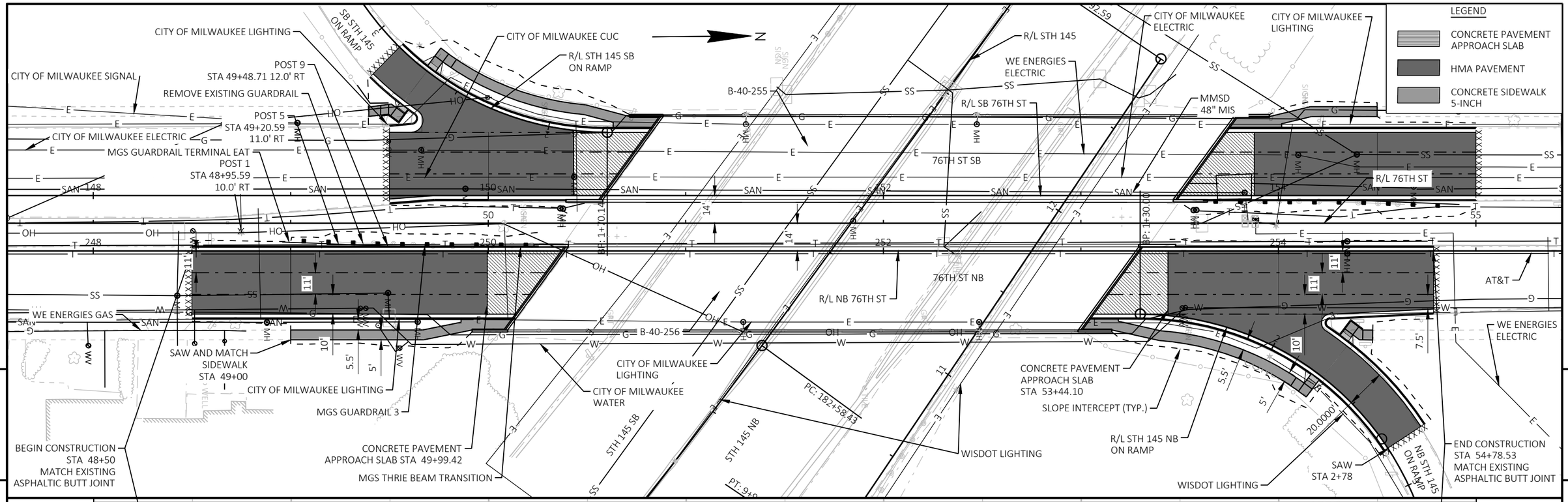
R/L STH 145 SB ON RAMP
SAW STA 2+86
SB STH 145 ON RAMP
SLOPE INTERCEPT (TYP.)
CONCRETE PAVEMENT APPROACH SLAB STA 50+43.17
CITY OF MILWAUKEE SIGNAL
CITY OF MILWAUKEE LIGHTING
CITY OF MILWAUKEE ELECTRIC
CITY OF MILWAUKEE ELECTRIC
BEGIN CONSTRUCTION STA 49+50
MATCH EXISTING ASPHALTIC BUTT JOINT
WE ENERGIES GAS
CITY OF MILWAUKEE LIGHTING
EP: 10+35.00
EP: 12+92.59
R/L STH 145
B-40-255
R/L SB 76TH ST
76TH ST SB
BP: 1+70.14
R/L NB 76TH ST
76TH ST NB
R/L 76TH ST
E B-40-256
STH 145 SB
STH 145 NB
PC: 182+58.43
WISDOT LIGHTING
MMSD 48" MIS
MGS THRIE BEAM TRANSITION
CONCRETE PAVEMENT APPROACH SLAB STA 53+87.86
MGS GUARDRAIL 3
SAW AND MATCH SIDEWALK STA 54+50
CITY OF MILWAUKEE LIGHTING
CITY OF MILWAUKEE CUC
WE ENERGIES ELECTRIC
END CONSTRUCTION STA 55+00
MATCH EXISTING ASPHALTIC BUTT JOINT
AT&T
MGS GUARDRAIL TERMINAL EAT POST 1 STA 54+91.68 10.0' LT
POST 5 STA 54+66.68 11.0' LT
CITY OF MILWAUKEE LIGHTING
REMOVE EXISTING GUARDRAIL
R/L STH 145 NB ON RAMP
CITY OF MILWAUKEE WATER
NB STH 145 ON RAMP
POST 9 STA 54+41.68 12.0' LT
WE ENERGIES ELECTRIC
WISDOT LIGHTING
BP: 1+30.00

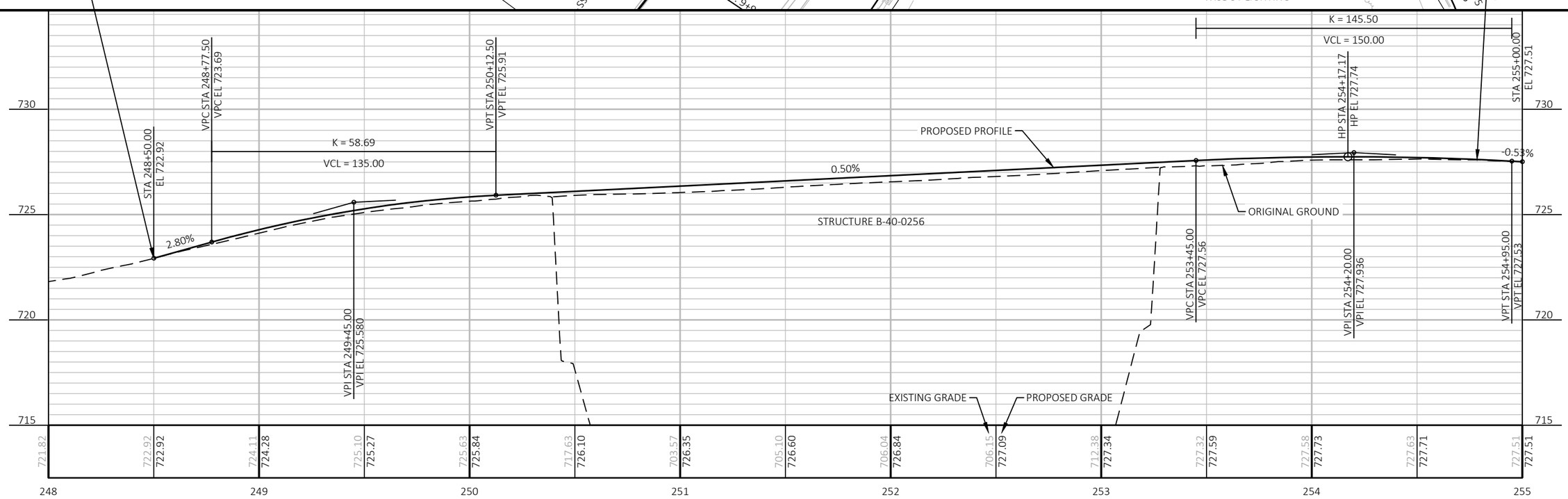
LEGEND
CONCRETE PAVEMENT APPROACH SLAB
HMA PAVEMENT
CONCRETE SIDEWALK 5-INCH

VPC STA 149+22.50
VPC EL 724.53
VPI STA 149+85.00
VPI EL 725.74
VPT STA 150+47.50
VPT EL 726.05
VPC STA 153+75.00
VPC EL 727.69
VPI STA 154+25.00
VPI EL 727.94
VPT STA 154+75.00
VPT EL 727.67
STA 155+00.03
EL 727.54
PROPOSED PROFILE
1.93%
0.50%
-0.53%
STRUCTURE B-40-0255
ORIGINAL GROUND
HP STA 154+23.55
HP EL 727.81
STA 149+13.80
EL 724.37
VCL = 125.00
K = 87.32
VCL = 100.00
K = 97.23
EXISTING GRADE
PROPOSED GRADE

730
725
720
715

| | | |

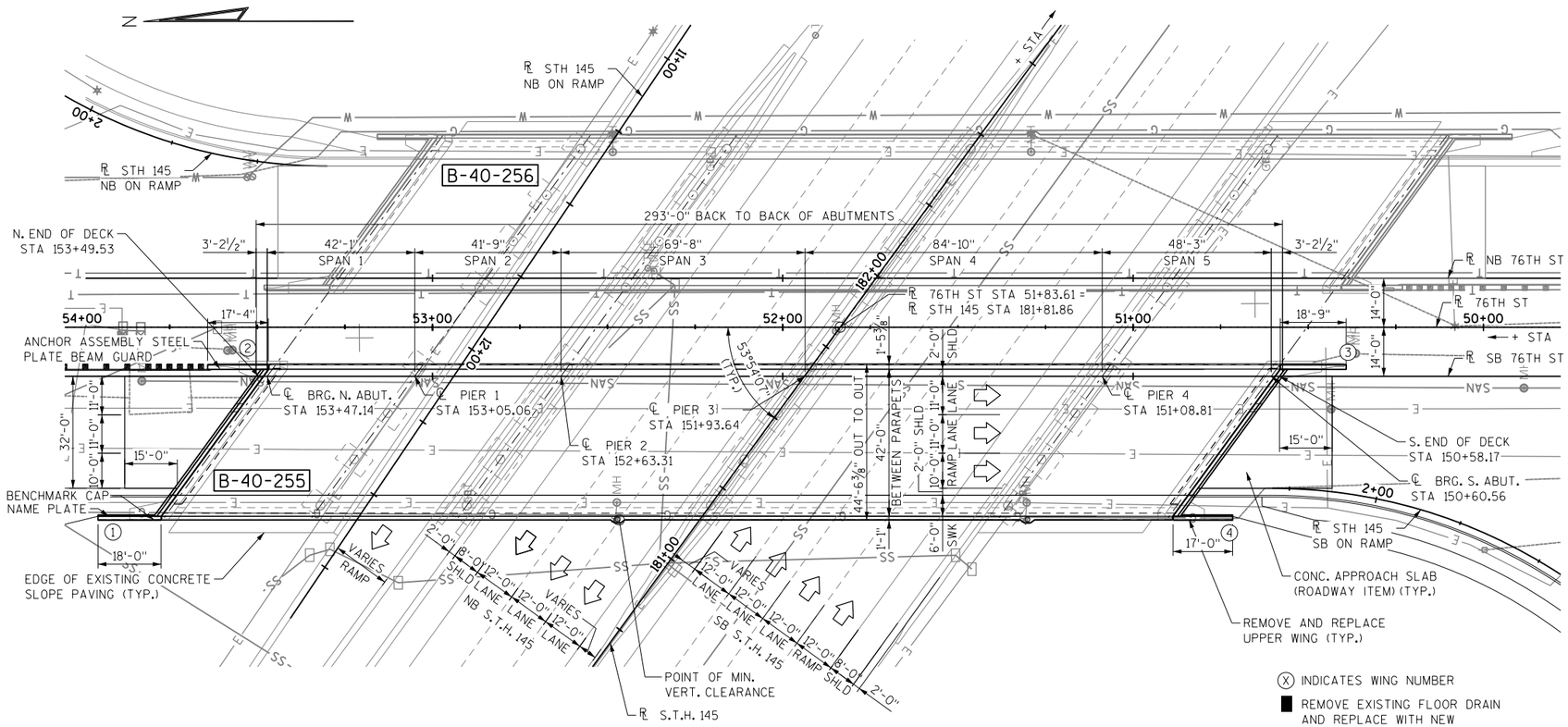




PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	PLAN AND PROFILE: 76TH ST NORTHBOUND	SHEET 94	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\050101_PP.DWG
LAYOUT NAME - 03
PLOT DATE : 4/27/2022 7:58 AM
PLOT BY : WEIGAND, BEN
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

STATE PROJECT NUMBER
1360-13-70

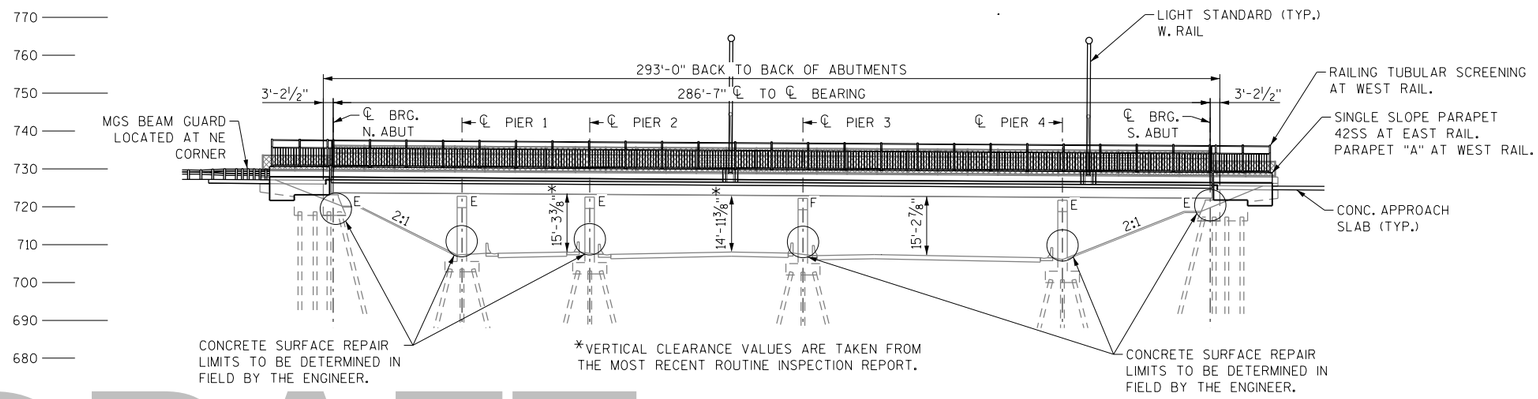


Ⓧ INDICATES WING NUMBER

■ REMOVE EXISTING FLOOR DRAIN AND REPLACE WITH NEW

PLAN

(5 SPAN - STEEL GIRDERS)
DECK REPLACEMENT, POLYMER OVERLAY, AND REPAINTING



ELEVATION

LOOKING SOUTHEAST ALONG ℄ STH 145

DRAFT

DESIGN DATA

LIVE LOAD:
DESIGN LOADING HS20
INVENTORY RATING HSXX
OPERATING RATING HSXX
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV) = 250 KIPS
DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PSF

MATERIAL PROPERTIES:
CONCRETE MASONRY:
SUBSTRUCTURE ..... f'c = 3,500 psi
SUPERSTRUCTURE ..... f'c = 4,000 psi
BAR STEEL REINFORCEMENT ..... fy = 60,000 psi

EXISTING STRUCTURE

THE EXISTING BRIDGE (B-40-255) IS A 293'-0" LONG, 44'-8" WIDE 5 SPAN STEEL GIRDER BRIDGE SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. THE STRUCTURE BEGINS AT STA 50+58.17 AND ENDS AT STA 53+49.53. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REVIEW AT WISDOT SE REGION OFFICE, 141 NW BARSTOW ST. WAUKESHA, WI OR THROUGH THE WISDOT STRUCTURES WEBSITE.

BENCHMARKS

NAME	DESCRIPTION	ELEV	STA	OFFSET
523	CP F1000SPK BERNSTEN FENO WIT ALUMINIM CAP	719.07	185+21.65	404.59' RT
524	CP F1000SPK BERNSTEN FENO WIT ALUMINIM CAP	726.09	178+51.36	432.63' LT

TRAFFIC DATA

STH 181 (76TH ST)
AADT 2022 = 28,800
AADT 2042 = 31,600
DESIGN SPEED = 40 MPH.

STH 145
AADT 2016 = XX,XXX
AADT 2023 = XX,XXX
DESIGN SPEED = XX MPH.

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK, PE
(608) 261-0261

CONSULTANT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST, SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTIONS, QUANTITIES & GENERAL NOTES
3. STAGING PLAN & TYP DETAILS
4. SUBSTRUCTURE REMOVALS
5. NORTH ABUTMENT MODIFICATIONS
6. NORTH ABUTMENT WINGWALL MODIFICATIONS
7. SOUTH ABUTMENT MODIFICATIONS
8. SOUTH ABUTMENT WINGWALL MODIFICATIONS
9. BEARING DETAILS
10. DECK ELEVATIONS
11. SUPERSTRUCTURE REINFORCEMENT
12. SUPERSTRUCTURE DETAILS
13. SINGLE SLOPE PARAPET 42SS
14. VERTICAL FACE PARAPET "A"
15. TUBULAR STEEL RAILING SCREENING
16. STRIP SEAL EXPANSION JOINT
17. COVER PLATE DETAILS
18. LIGHT SUPPORT DETAILS
19. CONDUIT DETAILS

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-255

STH 181 SB (N 76TH ST) OVER STH 145

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
MILWAUKEE	MILWAUKEE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JAP	WJZ	JAP	WJZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 19

95

FILE= B-40-255_10_GP&E.DGN
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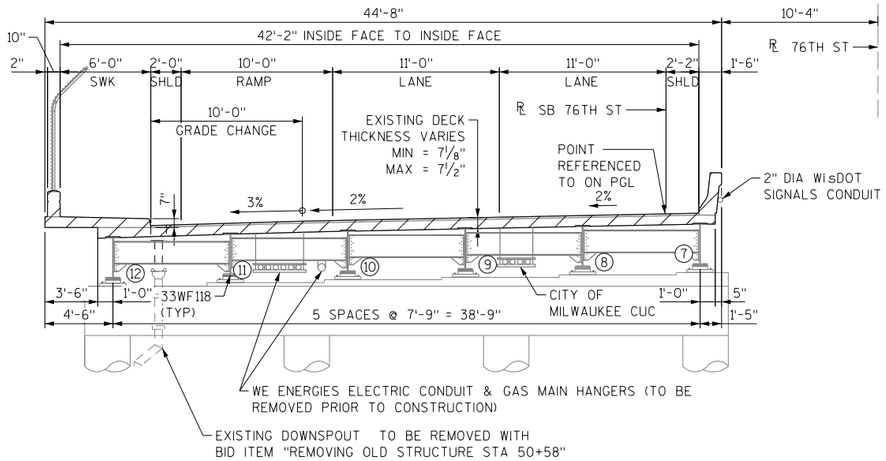
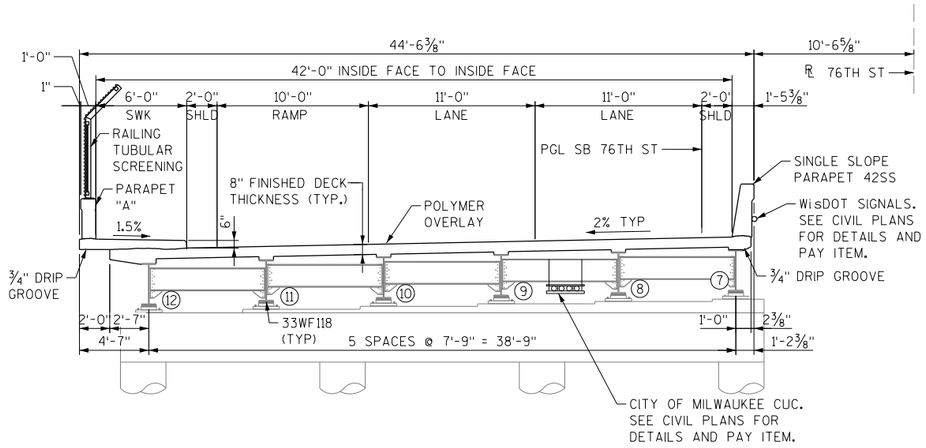


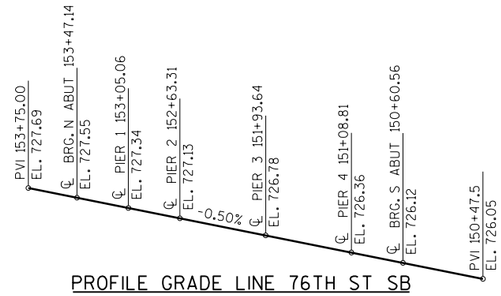
EXISTING TYPICAL SECTION THRU STRUCTURE B-40-255

(LOOKING NORTH)



FINISHED TYPICAL SECTION THRU STRUCTURE B-40-255

(LOOKING NORTH)



PROFILE GRADE LINE 76TH ST SB

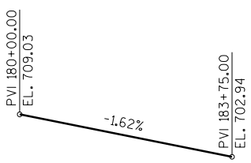
GENERAL NOTES

1. DRAWINGS SHALL NOT BE SCALED.
2. EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
3. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
4. THE TOP LAYER OF BAR STEEL REINFORCEMENT IN THE DECK SHALL BE PLACED WITH 21#2" OF CONCRETE COVER.
5. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
6. PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND TOP OF THE PARAPETS.
7. BEVEL EXPOSED EDGES OF CONCRETE 3#4" UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
9. ALL STATIONS AND ELEVATIONS ARE IN FEET.
10. THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE DECK REPLACEMENT DETAILS.
11. THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.
12. UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.
13. CONCRETE INSERTS TO BE FURNISHED BY THE UTILITY COMPANY AND PLACED BY THE CONTRACTOR. COST OF PLACING INSERTS SHALL BE INCLUDED IN THE BID PRICE FOR CONCRETE MASONRY.
14. THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR, 1964.
15. EXISTING FLOOR DRAIN REMOVAL IS INCLUDED IN THE COST OF BID ITEM "REMOVING OLD STRUCTURE STA 50+58".
16. VARIATIONS TO THE NEW GRADE LINE OVER 1#4" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.
17. THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-255" SHALL BE THE EXISTING GROUNDLINE.
18. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
19. APPLY PROTECTIVE SURFACE TREATMENT TO THE DECK AND SIDEWALK ON THE BRIDGE.
20. ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.
21. AT ABUTMENTS ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.
22. THE COLOR OF THE FINISH EPOXY TOP COAT FOR THE GIRDERS AND CONNECTING STRUCTURAL STEEL SHALL BE BLUE (AMS COLOR NO. 25240).
23. SHOT BLASTING, DECK SURFACE PREPARATIONS, AND TRANSITIONAL AREAS ARE INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
24. REMOVE DRAIN POURS AT PIERS 2 AND 4, INCLUDED IN BID NO. 203.0200.

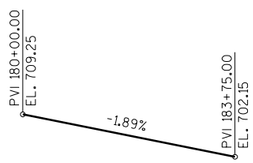
DRAFT

TOTAL ESTIMATE OF QUANTITIES

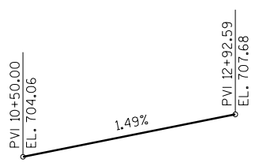
BID NO.	BID ITEMS	UNIT	S ABUT	PIER 1	PIER 2	PIER 3	PIER 4	N ABUT	SUPER	TOTAL
203.0200	REMOVING OLD STRUCTURE STA 150+58	LS	-	-	-	-	-	-	-	-
203.0225.S	DEBRIS CONTAINMENT B-40-255	LS	-	-	-	-	-	-	-	-
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-255	LS	-	-	-	-	-	-	-	-
210.1500	BACKFILL STRUCTURE TYPE A	TON	-	-	-	-	-	-	-	-
502.0100	CONCRETE MASONRY BRIDGES	CY	-	-	-	-	-	-	-	-
502.3101	EXPANSION DEVICE	LF	-	-	-	-	-	-	-	-
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	-	-	-	-	-	-
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	-	-	-	-	-	-	-	-
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-	-	-	-	-	-	-	-
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	-	-	-	-	-	-
509.5100.S	POLYMER OVERLAY	SY	-	-	-	-	-	-	-	-
513.4091	RAIILING TUBULAR SCREENING	LF	-	-	-	-	-	-	-	-
514.0445	FLOOR DRAINS TYPE GC	EACH	-	-	-	-	-	-	-	-
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-	-	-	-	-	-	-	-
517.0600	PAINTING EPOXY SYSTEM B-40-255	LS	-	-	-	-	-	-	-	-
517.0900.S	PREPARATION AND COATING OF TOP FLANGES B-40-255	LS	-	-	-	-	-	-	-	-
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-255	LS	-	-	-	-	-	-	-	-
517.4500.S	NEGATIVE PRESSURE CONTAININMENT AND COLLECTION OF WASTE MATERIALS B-40-255	LS	-	-	-	-	-	-	-	-
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	-	-	-	-	-	-	-	-
531.8990	ANCHOR ASSEMBLIES POLES ON STRUCTURES	LF	-	-	-	-	-	-	-	-
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	EACH	-	-	-	-	-	-	-	-
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	LF	-	-	-	-	-	-	-	-
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	-	-	-	-	-	-	-	-
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	EACH	-	-	-	-	-	-	-	-
653.0220	JUNCTION BOXES 18X6X6-INCH	EACH	-	-	-	-	-	-	-	-
653.0222	JUNCTION BOXES 18X12X6-INCH	EACH	-	-	-	-	-	-	-	-
657.6005	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	-	-	-	-	-	-	-	-
SPV.0060.XX	CLEANING PAINTING AND LUBRICATING BEARINGS	EACH	-	-	-	-	-	-	-	-
	NON-BID ITEMS									
	PREFORMED JOINT FILLER - ½", ¾"									
	NON-BITUMINOUS JOINT SEALER									
	NAME PLATE									



PROFILE GRADE LINE STH 145 NB



PROFILE GRADE LINE STH 145 SB



PROFILE GRADE LINE STH 145 NB ON RAMP

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

TYPICAL SECTIONS, QUANTITIES & GENERAL NOTES

SHEET 2 OF 19

96

STATE PROJECT NUMBER

1360-13-70

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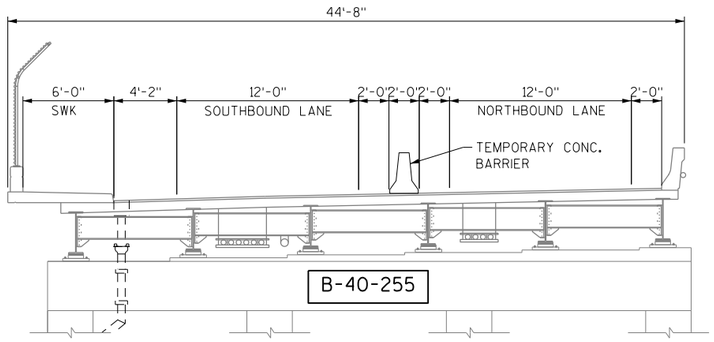
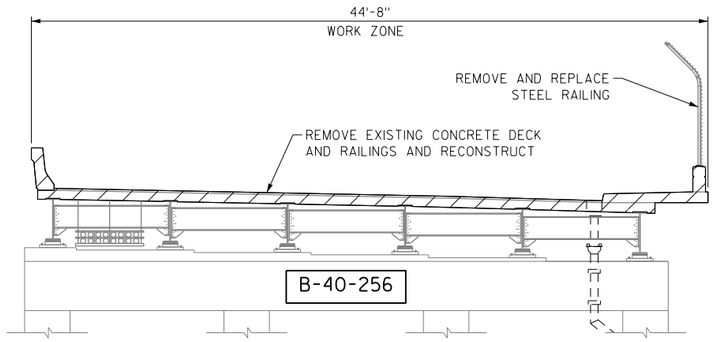
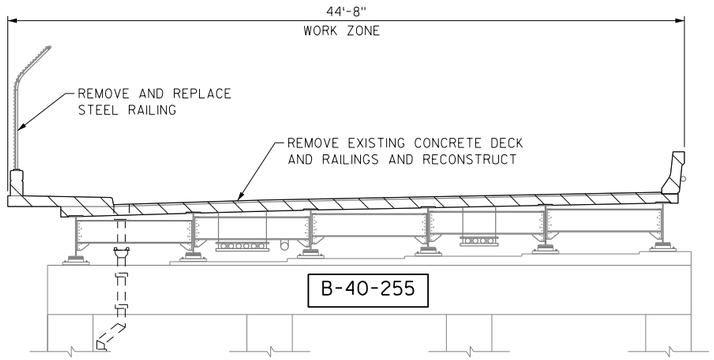
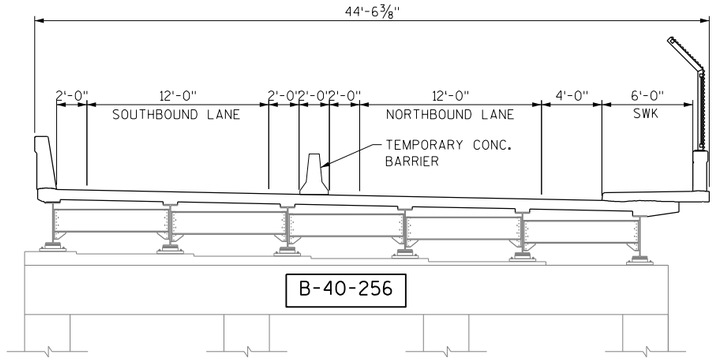
STATE PROJECT NUMBER
1360-13-70





STAGE 1: SECTION
(LOOKING NORTH)





STAGE 2: SECTION
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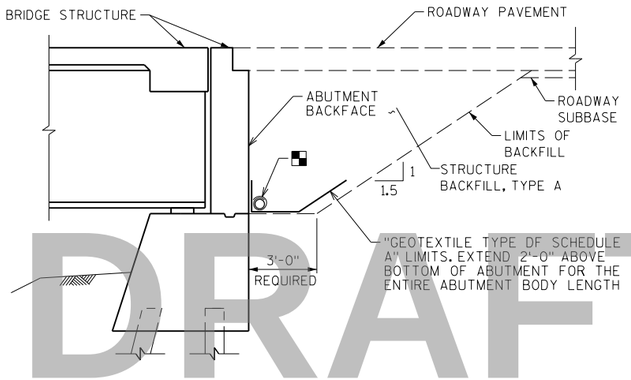


DRAFT

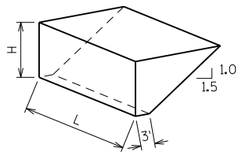
ABUTMENT BACKFILL

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-255" SHALL BE THE EXISTING GROUNDLINE

BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY CONTRACTOR.

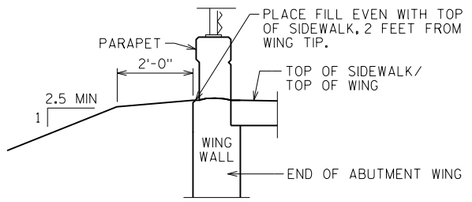
AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOTBE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN TO SUITABLE DRAINAGE. ATTACH ROADENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



ABUTMENT BACKFILL DIAGRAM FOR WINGS PARALLEL TO ROADWAY

L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} (EF)/27
V_{TON} = V_{CY} (2.0)



TYPICAL FILL SECTION AT WING TIPS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

STAGING PLAN & TYP DETAILS

SHEET 3 OF 19

97

FILE= B-40-255_30_STAGING.DGN
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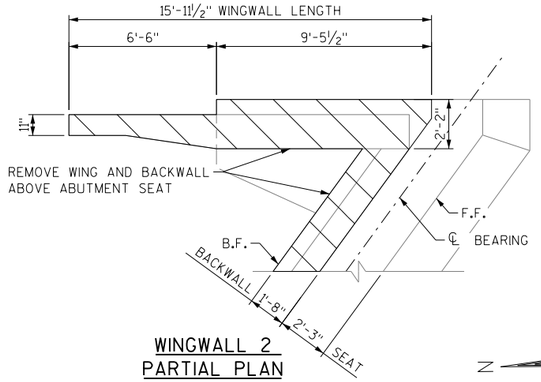
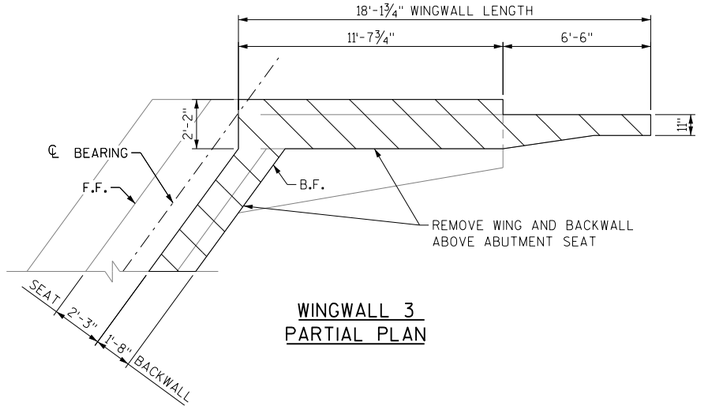
STATE PROJECT NUMBER

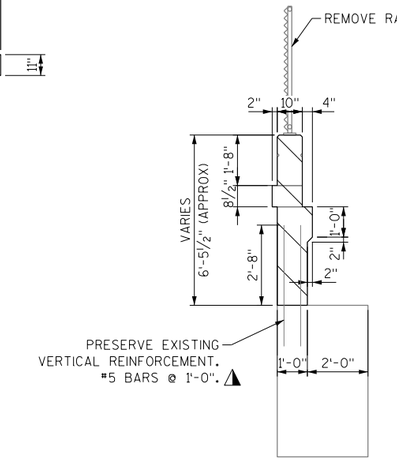
1360-13-70



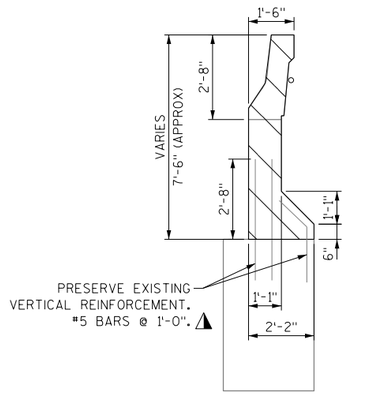
WINGWALL 2
PARTIAL PLAN



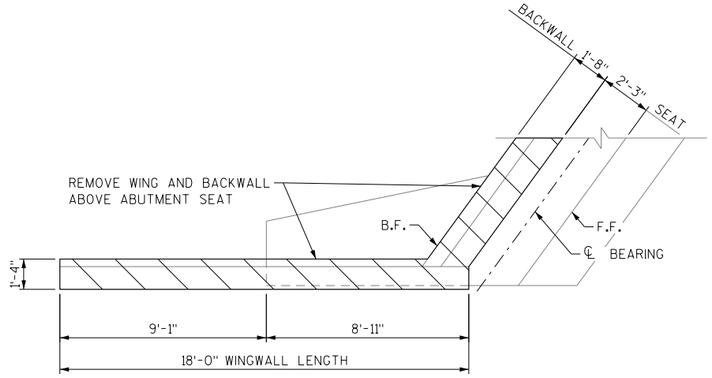
WINGWALL 3
PARTIAL PLAN



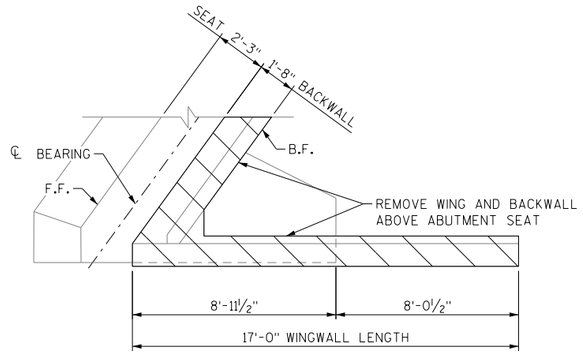
SECTION THROUGH
WINGWALLS 1 & 4



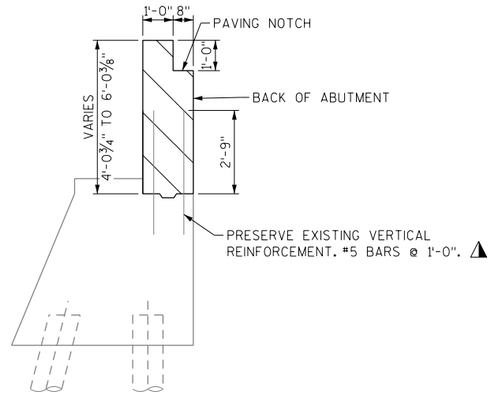
SECTION THROUGH
WINGWALLS 2 & 3



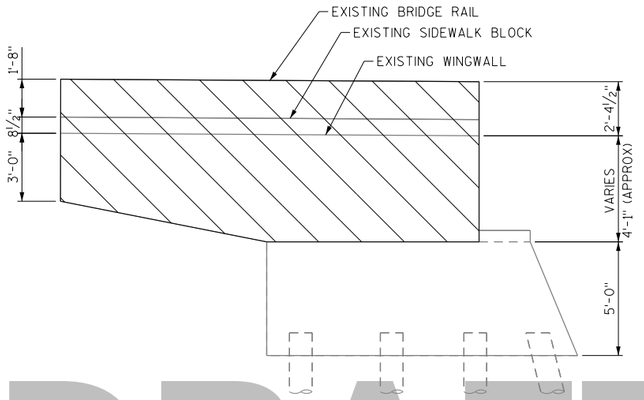
WINGWALL 1
PARTIAL PLAN



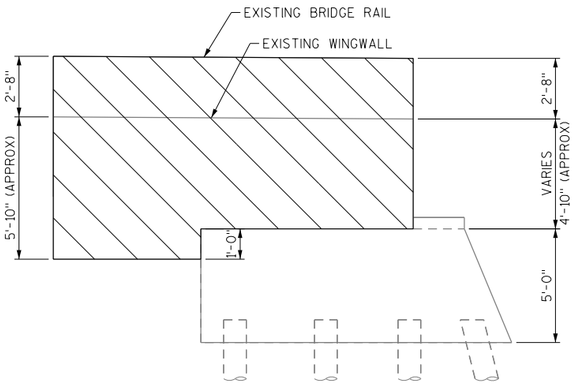
WINGWALL 4
PARTIAL PLAN



SECTION THROUGH
ABUTMENT



WINGWALL 1 ELEVATION
(WINGWALL 4 IS SIMILAR)



WINGWALL 3 ELEVATION
(WINGWALL 2 IS SIMILAR)

LEGEND

⚠ CLEAN, STRAIGHTEN, AND INCORPORATE INTO NEW WORK. DO NOT CUT BELOW LIMITS SHOWN. REPLACE DAMAGED OR CORRODED REINFORCEMENT AS DIRECTED BY THE ENGINEER.

HATCHED AREAS INDICATE CONCRETE REMOVALS

F.F. - FRONT FACE

B.F. - BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

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SUBSTRUCTURE REMOVALS

SHEET 4 OF 19

98

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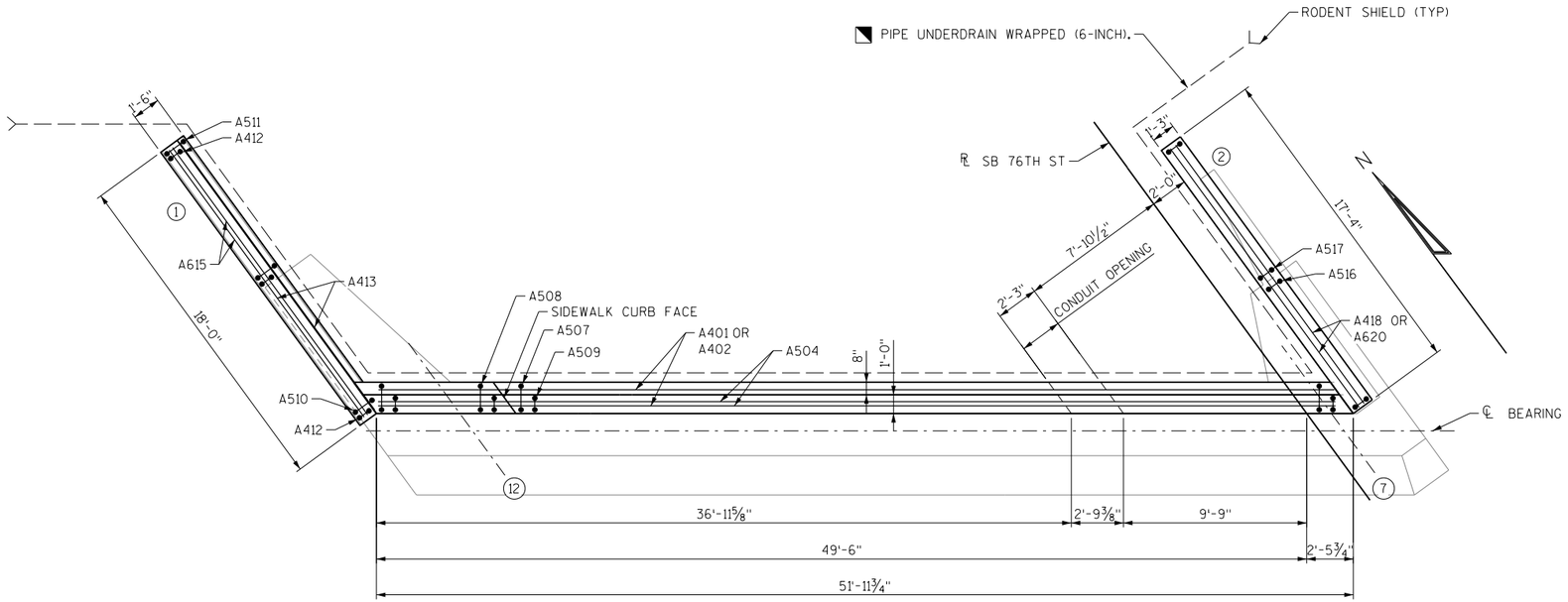
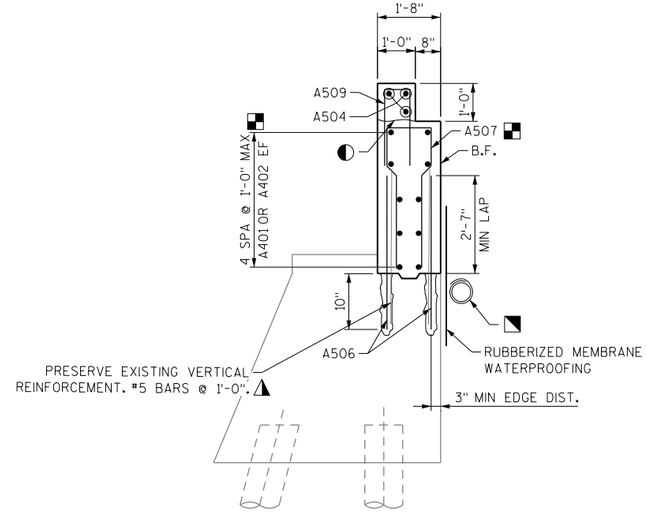
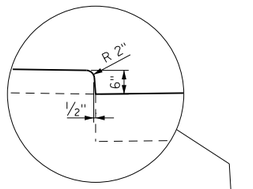
STATE PROJECT NUMBER
1360-13-70

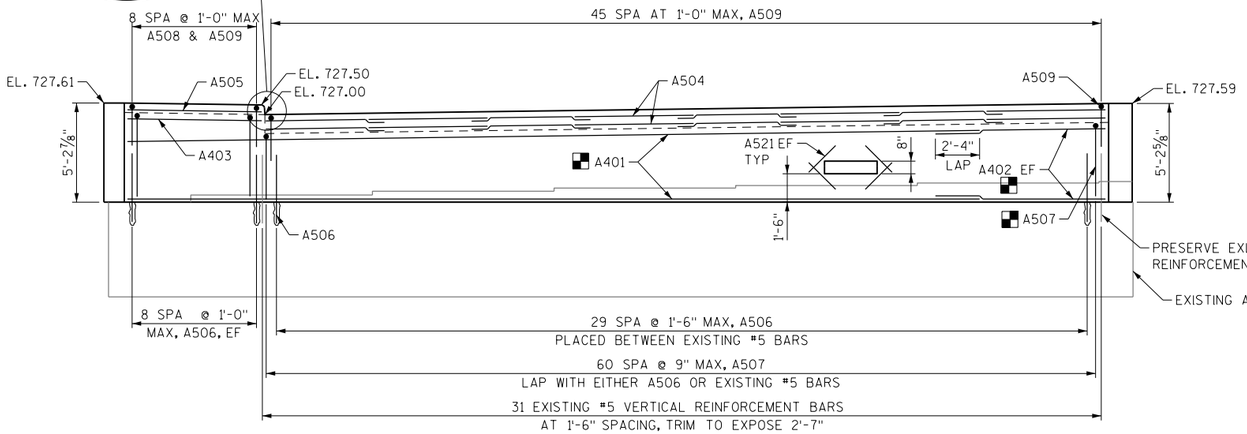


NORTH ABUTMENT PLAN

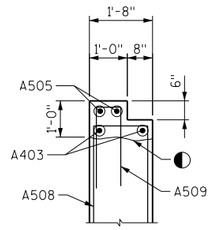


TYPICAL ABUTMENT SECTION





NORTH ABUTMENT
BACKWALL ELEVATION
(WINGWALLS NOT SHOWN FOR CLARIFY)



SECTION AT
SIDEWALK NOTCH

LEGEND

FF - FRONT FACE
BF - BACK FACE
EF - EACH FACE

◥ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT END OF PIPE UNDERDRAIN.

◐ CONSTRUCTION JOINT STRIKE OFF AND LEAVE ROUGH. POUR CONCRETE ABOVE THIS JOINT AFTER DECK IS IN PLACE.

◪ FIELD CUT OR SHIFT TO MISS UTILITY BLOCK OUT AS DIRECTED BY THE ENGINEER.

◭ CLEAN, STRAIGHTEN, AND INCORPORATE INTO NEW WORK. DO NOT CUT BELOW REMOVAL LIMITS SHOWN ON REMOVAL DRAWING. REPLACE DAMAGED OR CORRODED REINFORCEMENT AS DIRECTED BY THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

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NORTH ABUTMENT MODIFICATIONS

SHEET 5 OF 19

99

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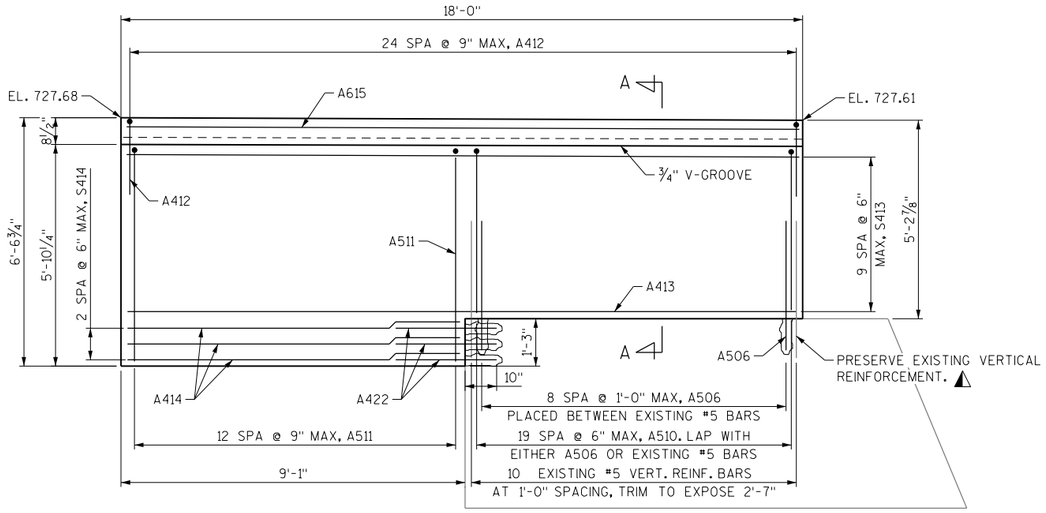
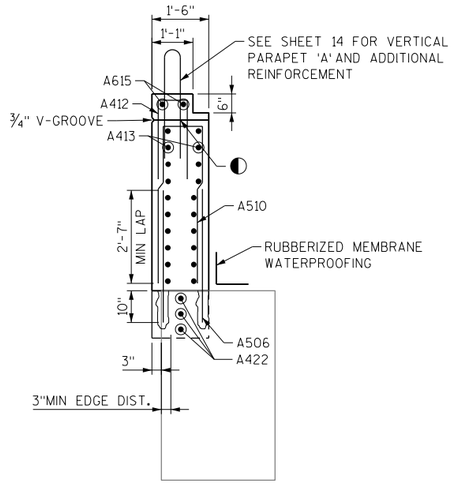
STATE PROJECT NUMBER

1360-13-70



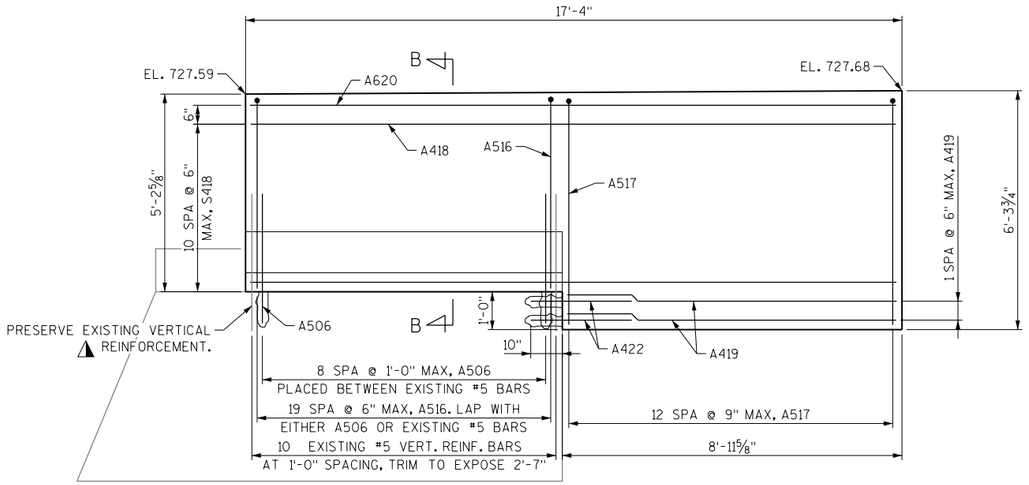
WINGWALL 1 ELEVATION



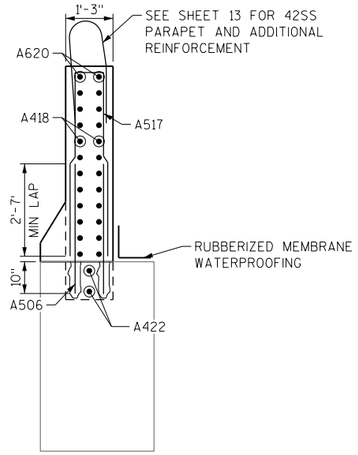
SECTION A-A

BILL OF BARS

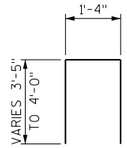
BAR NO.	COATED BAR	NO. REQ'D	LENGTH	BENT BAR	BUNDLED	BAR SERIES ⚠	3166 # COATED -- # UNCOATED LOCATION
A401	X	10	10				BACKWALL HORIZONTAL - FF & BF
A402	X	10	10				BACKWALL HORIZONTAL - FF & BF
A403	X	2	2				BACKWALL HORIZONTAL - FF & BF AT SIDEWALK
A504	X	24	24				PAVING BLOCK HORIZONTAL
A505	X	2	2				PAVING BLOCK HORIZONTAL - SIDEWALK
A506	X	57	57				BACKWALL & WINGWALL VERTICAL - ADHESIVE ANCHORS
A507	X	61	61	X		X	BACKWALL VERTICAL
A508	X	9	9	X			BACKWALL VERTICAL - SIDEWALK
A509	X	55	55	X			PAVING BLOCK VERTICAL
A510	X	20	20	X			WINGWALL 1 VERTICAL
A511	X	13	13	X			WINGWALL 1 VERTICAL - OVERHANG
A412	X	25	25	X			WINGWALL 1 VERTICAL - SIDEWALK NOTCH
A413	X	20	20				WINGWALL 1 HORIZONTAL
A414	X	6	6				WINGWALL 1 HORIZONTAL - ADHESIVE ANCHOR
A615	X	2	2				WINGWALL 1 HORIZONTAL - SIDEWALK NOTCH
A516	X	20	20	X			WINGWALL 2 VERTICAL
A517	X	13	13	X			WINGWALL 2 VERTICAL - OVERHANG
A418	X	22	22				WINGWALL 2 HORIZONTAL
A419	X	4	4				WINGWALL 2 HORIZONTAL - ADHESIVE ANCHOR
A620	X	2	2				WINGWALL 2 HORIZONTAL - TOP
A521	X	8	8				BACKWALL UTILITY BLOCKOUT
A422	X	5	5				WINGWALL 2 HORIZONTAL - ADHESIVE ANCHOR



WINGWALL 2 ELEVATION



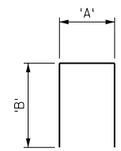
SECTION B-B



A507

BAR SERIES TABLE

BAR NO	NUMBER REQUIRED	LENGTH
A507	1 SERIES OF 61	7'-11" TO 9'-1"



BAR NO	DIM 'A'	DIM 'B'
A508	1'-4"	4'-5"
A509	8"	2'-0"
A510	1'-2"	4'-4"
A511	1'-2"	5'-5"
A412	9"	2'-1"
A516	11"	5'-0"
A517	11"	5'-11"

LEGEND

FF - FRONT FACE
BF - BACK FACE

◐ CONSTRUCTION JOINT STRIKE OFF AND LEAVE ROUGH

⚠ CLEAN, STRAIGHTEN, AND INCORPORATE INTO NEW WORK. DO NOT CUT BELOW LIMITS SHOWN ON REMOVAL PLAN. REPLACE DAMAGED OR CORRODED REINFORCEMENT AS DIRECTED BY THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

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NORTH ABUTMENT WINGWALL MODIFICATIONS

SHEET 6 OF 19

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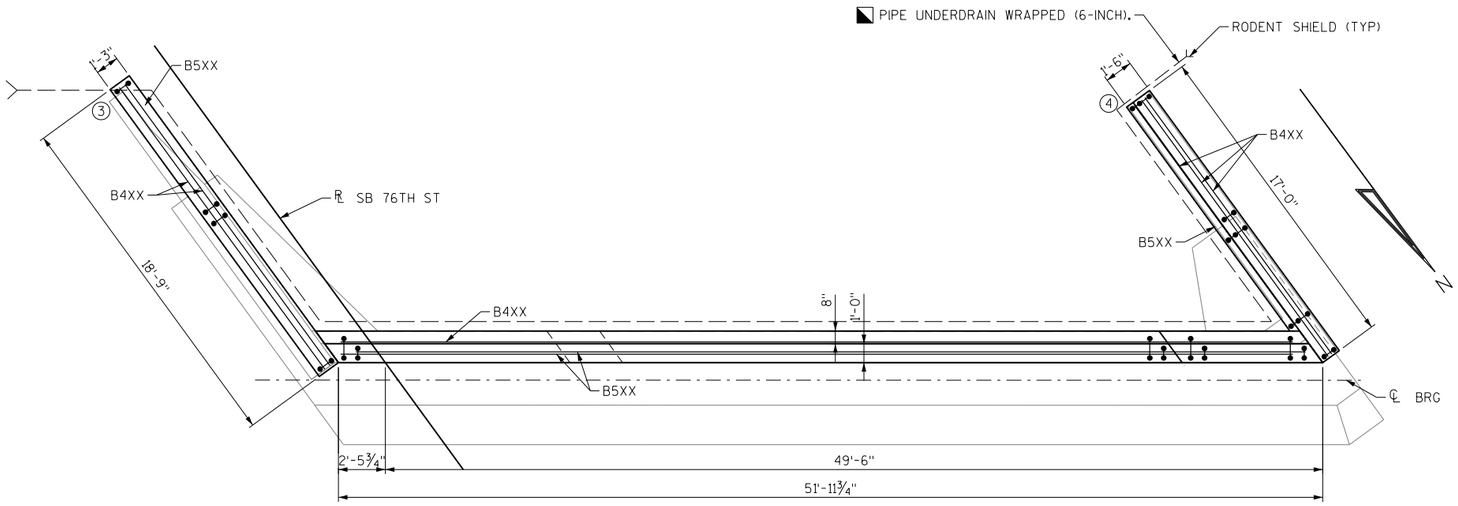
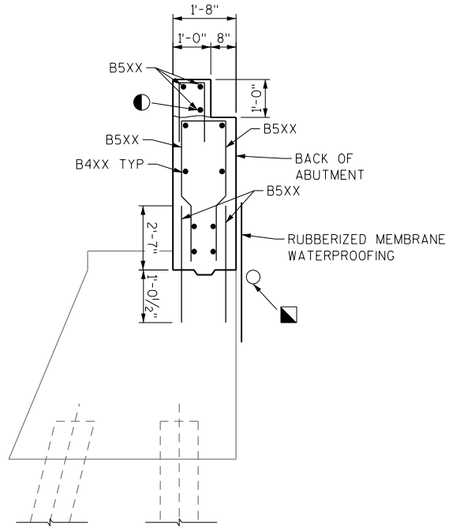
STATE PROJECT NUMBER
1360-13-70

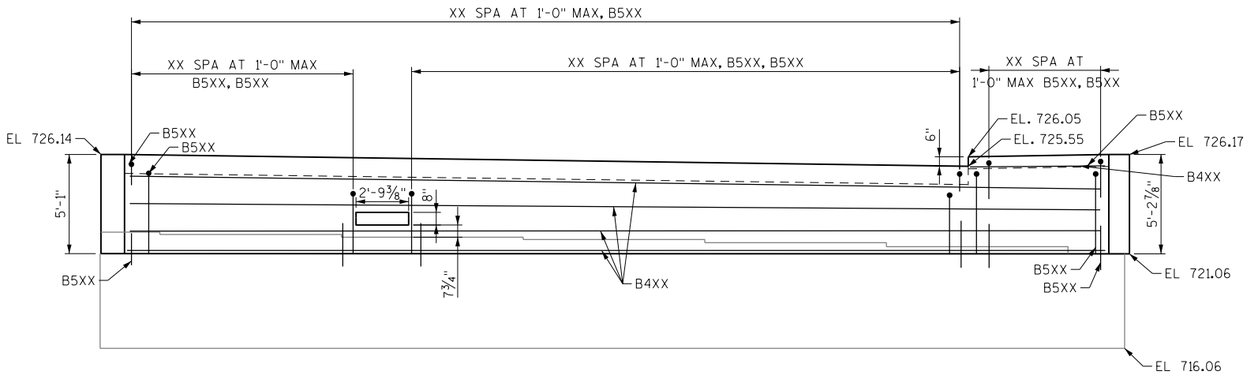


SOUTH ABUTMENT PLAN

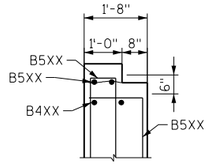
B5XX, B5XX



TYPICAL ABUTMENT SECTION



SOUTH ABUTMENT BACKWALL ELEVATION



SECTION AT SIDEWALK NOTCH

LEGEND:
FF - FRONT FACE
BF - BACK FACE

PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT END OF PIPE UNDERDRAIN.

CONSTRUCTION JOINT STRIKEOFF AND LEAVE ROUGH

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

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SOUTH ABUTMENT WINGWALL MODIFICATIONS

SHEET 7 OF 19

101

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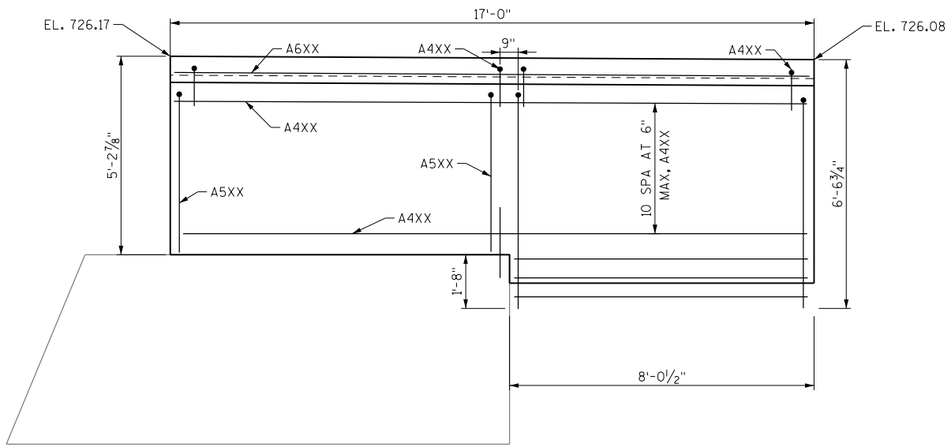
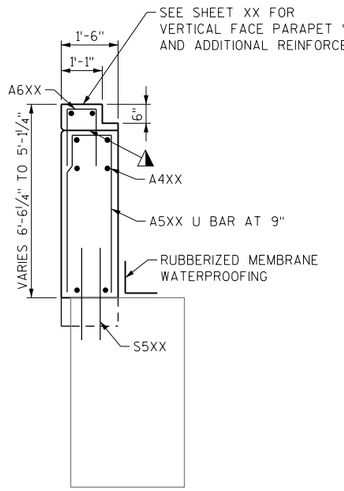
STATE PROJECT NUMBER

1360-13-70



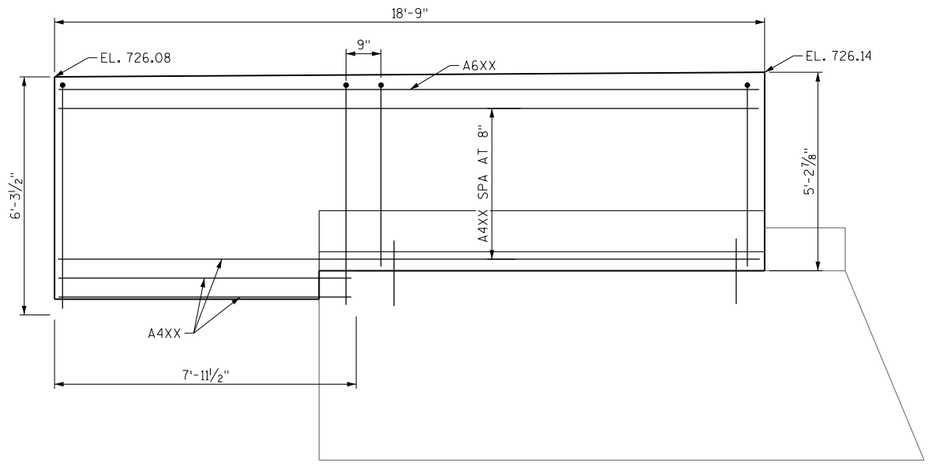
WINGWALL 4 ELEVATION



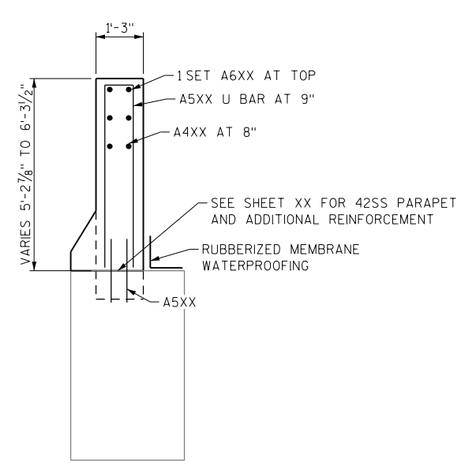
WINGWALL 4 SECTION

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D NORTH ABUT.	NO. REQ'D SOUTH ABUT.	LENGTH	BENT BAR	BUNDLED	BAR SERIES ⚠	-- # COATED -- # UNCOATED LOCATION
--	-	-	-	-	-			-



WINGWALL 3 ELEVATION



WINGWALL 3 SECTION

LEGEND:

⚠ OPTIONAL CONSTRUCITON JOINT. IF JOINT IS USED, UTILIZE RUBBERIZED MEMBRANE WATERPROOFING (COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

FF - FRONT FACE
BF - BACK FACE

DRAFT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

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SHEET 8 OF 19

102

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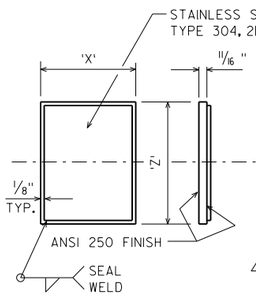
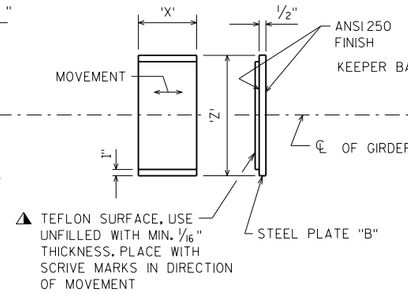
STATE PROJECT NUMBER

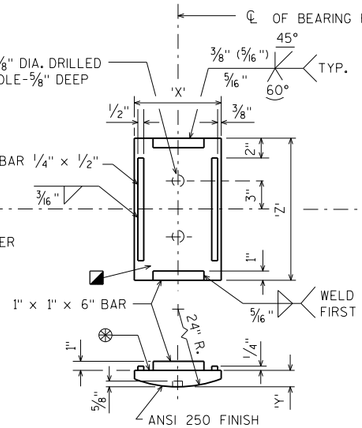
1360-13-70



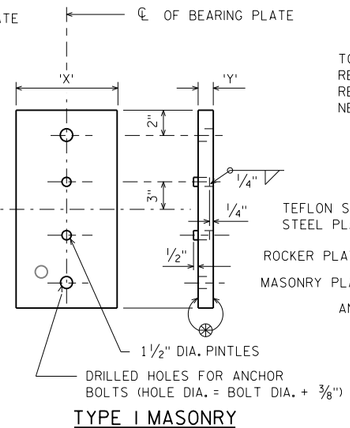
TOP PLATE "A"



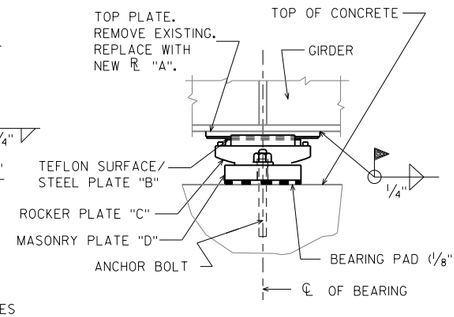
TEFLON SURFACE ON PLATE "B"



ROCKER PLATE "C"

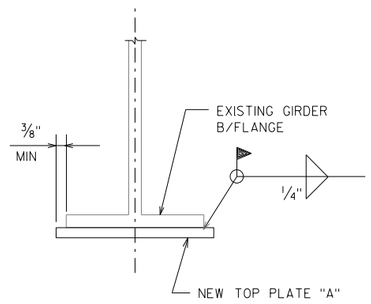


TYPE I MASONRY PLATE "D"

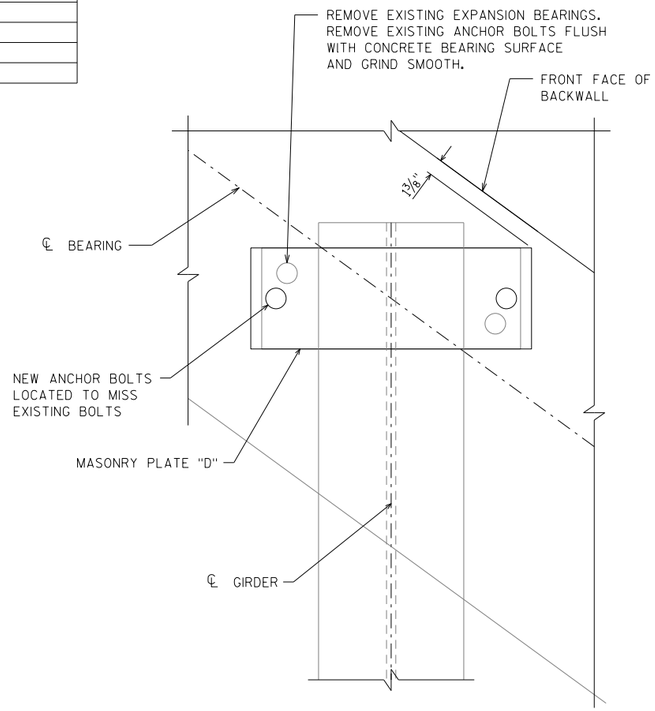


EXPANSION BEARING ASSEMBLY

PLATE "A"		PLATE "B"		PLATE "C"			PLATE "D"			PLATE "D" TYPE	ANCHOR BOLT SIZE	NO. OF BRG'S REQ'D.	LOCATION
'X'	'Z'	'X'	'Z'	'X'	'Y'	'Z'	'X'	'Y'	'Z'				
9"	1'-0 1/4"	5"	1'-0 1/4"	7"	1 1/16"	1'-2 1/2"	8"	1 1/2"	1'-10 1/4"	I	1 1/4"	12	NORTH AND SOUTH ABUTMENTS



TOP PLATE 'A' WELD DETAIL



BEARING PLAN ON ABUTMENT SEAT

UPPER BEARING ℞'S NOT SHOWN FOR CLARITY

BEARING NOTES

REPLACE ALL BEARINGS AT ABUTMENTS.

⊛ ALL BEARINGS ARE SYMMETRICAL ABOUT ℄ OF GIRDER AND ℄ OF BEARING PLATE.

FINISH THESE SURFACES TO ANSI 250 IF 'Y' DIMENSION IS GREATER THAN 2".

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS C.

ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM F1554 GRADE 50, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES, BUT EXCLUDING STAINLESS STEEL SHEET, TEFLON SURFACE, PINTLES, ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

ALL MATERIAL IN BEARINGS, INCLUDING SHIM PLATES AND BEARING PADS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES EXPANSION B-40-255"

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

PROVIDE 1/8" THICK BEARING PAD THE SAME SIZE AS MASONRY PLATE "D" FOR EACH BEARING.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. BOLT LENGTH TO BE 1'-5" FOR 1 1/4" BOLTS. PROJECT ANCHOR BOLTS, MASONRY PLATE "D" THICKNESS + 2 1/4", ABOVE TOP OF CONCRETE.

CHAMFER TOP OF PINTLES 1/8". DRILL HOLES FOR ALL PINTLES IN MASONRY PLATE "D" FOR A DRIVING FIT.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR ASTM A572 GRADE 50.

EXPANSION BEARINGS:
ROCKER PLATE "C" AND MASONRY PLATE "D" SHALL BE GALVANIZED. TOP PLATE "A" AND STEEL PLATE "B" SHALL BE SHOP PAINTED. USE A WELDABLE PRIMER ON TOP PLATE "A". DO NOT PAINT STAINLESS STEEL OR TEFLON SURFACES.

◪ PROVIDE A METHOD FOR HANDLING ROCKER PLATE "C" DURING GALVANIZING.

⚠ BOND STEEL PLATE "B" AND TEFLON WITH ADHESIVE MATERIAL MEETING REQUIREMENTS FOUND IN THE STANDARD SPECIFICATION.

AT INSTALLATION, ENSURE STAINLESS STEEL SLIDING FACE OF THE UPPER ELEMENT AND THE TFE SLIDING FACE OF THE LOWER ELEMENT HAVE THE SURFACE FINISH SPECIFIED AND ARE CLEAN AND FREE OF ALL DUST, MOISTURE, AND OTHER FOREIGN MATTER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

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BEARING DETAILS

SHEET 9 OF 19

103

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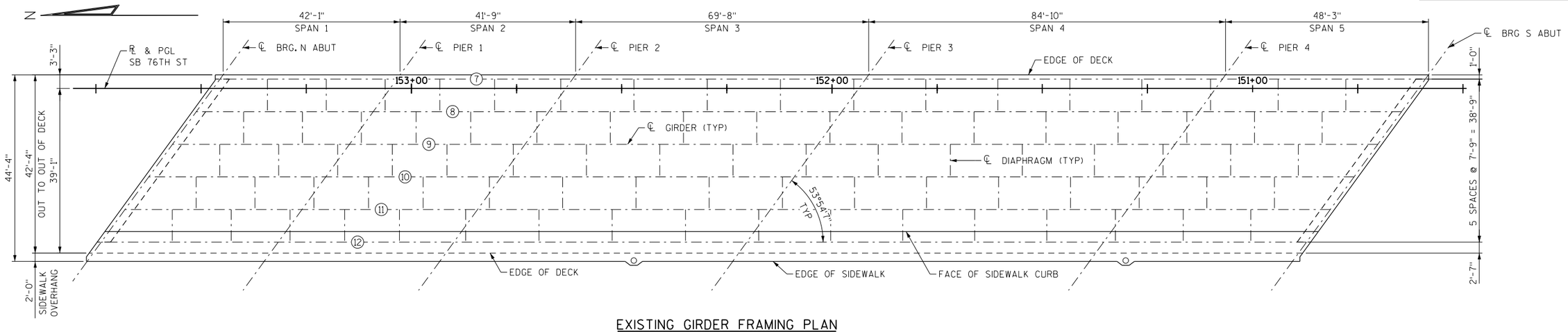
STATE PROJECT NUMBER
1360-13-70



EXISTING GIRDER FRAMING PLAN

(FIELD SPLICES AND COVER PLATES NOT SHOWN)

FINISHED TOP OF DECK ELEVATIONS

*THIS ELEVATION IS A CONTINUATION OF THE DECK CROSS SLOPE.

	LOCATION	EAST EDGE* OF DECK	GIRDER 7	EAST FACE OF PARAPET	PGL SB 76TH ST	GIRDER 8	GIRDER 9	GIRDER 10	GIRDER 11	WEST FACE OF CURB	GIRDER 12	WEST EDGE OF DECK
	℄ N ABUT	727.60	727.59	727.58	727.55	727.46	727.33	727.21	727.08	726.99	726.95	726.91
SPAN 1	0.1	727.58	727.57	727.56	727.53	727.44	727.31	727.19	727.06	726.97	726.93	726.89
	0.2	727.56	727.55	727.54	727.51	727.42	727.29	727.17	727.04	726.95	726.91	726.87
	0.3	727.54	727.52	727.52	727.49	727.40	727.27	727.14	727.02	726.93	726.89	726.85
	0.4	727.52	727.50	727.50	727.47	727.38	727.25	727.12	727.00	726.91	726.87	726.83
	0.5	727.50	727.48	727.48	727.45	727.36	727.23	727.10	726.98	726.89	726.85	726.81
	0.6	727.48	727.46	727.46	727.42	727.33	727.21	727.08	726.95	726.87	726.83	726.79
	0.7	727.46	727.44	727.44	727.40	727.31	727.19	727.06	726.93	726.85	726.81	726.76
	0.8	727.44	727.42	727.41	727.38	727.29	727.17	727.04	726.91	726.83	726.79	726.74
	0.9	727.41	727.40	727.39	727.36	727.27	727.14	727.02	726.89	726.80	726.76	726.72
	℄ PIER 1	727.39	727.38	727.37	727.34	727.25	727.12	727.00	726.87	726.78	726.74	726.70
SPAN 2	0.1	727.37	727.36	727.35	727.32	727.23	727.10	726.98	726.85	726.76	726.72	726.68
	0.2	727.35	727.33	727.33	727.30	727.21	727.08	726.95	726.83	726.74	726.70	726.66
	0.3	727.33	727.31	727.31	727.28	727.19	727.06	726.93	726.81	726.72	726.68	726.64
	0.4	727.31	727.29	727.29	727.26	727.17	727.04	726.91	726.79	726.70	726.66	726.62
	0.5	727.29	727.27	727.27	727.24	727.15	727.02	726.89	726.77	726.68	726.64	726.60
	0.6	727.27	727.25	727.25	727.21	727.12	727.00	726.87	726.74	726.66	726.62	726.58
	0.7	727.25	727.23	727.23	727.19	727.10	726.98	726.85	726.72	726.64	726.60	726.55
	0.8	727.23	727.21	727.21	727.17	727.08	726.96	726.83	726.70	726.62	726.58	726.53
	0.9	727.20	727.19	727.18	727.15	727.06	726.93	726.81	726.68	726.60	726.55	726.51
	℄ PIER 2	727.18	727.17	727.16	727.13	727.04	726.91	726.79	726.66	726.57	726.53	726.49
SPAN 3	0.1	727.15	727.13	727.13	727.10	727.01	726.88	726.75	726.63	726.54	726.50	726.46
	0.2	727.11	727.10	727.09	727.06	726.97	726.84	726.72	726.59	726.51	726.46	726.42
	0.3	727.08	727.06	727.06	727.03	726.94	726.81	726.68	726.56	726.47	726.43	726.39
	0.4	727.04	727.03	727.02	726.99	726.90	726.77	726.65	726.52	726.44	726.39	726.35
	0.5	727.01	726.99	726.99	726.96	726.87	726.74	726.61	726.49	726.40	726.36	726.32
	0.6	726.97	726.96	726.95	726.92	726.83	726.70	726.58	726.45	726.37	726.32	726.28
	0.7	726.94	726.92	726.92	726.89	726.80	726.67	726.54	726.42	726.33	726.29	726.25
	0.8	726.90	726.89	726.88	726.85	726.76	726.63	726.51	726.38	726.30	726.25	726.21
	0.9	726.87	726.85	726.85	726.82	726.73	726.60	726.47	726.35	726.26	726.22	726.18
	℄ PIER 3	726.83	726.82	726.81	726.78	726.69	726.57	726.44	726.31	726.23	726.19	726.14
SPAN 4	0.1	726.79	726.78	726.77	726.74	726.65	726.52	726.40	726.27	726.18	726.14	726.10
	0.2	726.75	726.73	726.73	726.70	726.61	726.48	726.35	726.23	726.14	726.10	726.06
	0.3	726.71	726.69	726.69	726.65	726.56	726.44	726.31	726.18	726.10	726.06	726.02
	0.4	726.67	726.65	726.64	726.61	726.52	726.40	726.27	726.14	726.06	726.02	725.97
	0.5	726.62	726.61	726.60	726.57	726.48	726.35	726.23	726.10	726.01	725.97	725.93
	0.6	726.58	726.56	726.56	726.53	726.44	726.31	726.18	726.06	725.97	725.93	725.89
	0.7	726.54	726.52	726.52	726.48	726.39	726.27	726.14	726.01	725.93	725.89	725.85
	0.8	726.50	726.48	726.47	726.44	726.35	726.23	726.10	725.97	725.89	725.85	725.80
	0.9	726.45	726.44	726.43	726.40	726.31	726.18	726.06	725.93	725.84	725.80	725.76
	℄ PIER 4	726.41	726.39	726.39	726.36	726.27	726.14	726.01	725.89	725.80	725.76	725.72
SPAN 5	0.1	726.39	726.37	726.37	726.33	726.24	726.12	725.99	725.86	725.78	725.74	725.69
	0.2	726.36	726.35	726.34	726.31	726.22	726.09	725.97	725.84	725.75	725.71	725.67
	0.3	726.34	726.32	726.32	726.28	726.19	726.07	725.94	725.81	725.73	725.69	725.65
	0.4	726.31	726.30	726.29	726.26	726.17	726.04	725.92	725.79	725.70	725.66	725.62
	0.5	726.29	726.27	726.27	726.24	726.15	726.02	725.89	725.77	725.68	725.64	725.60
	0.6	726.27	726.25	726.24	726.21	726.12	726.00	725.87	725.74	725.66	725.62	725.57
	0.7	726.24	726.22	726.22	726.19	726.10	725.97	725.84	725.72	725.63	725.59	725.55
	0.8	726.22	726.20	726.20	726.16	726.07	725.95	725.82	725.69	725.61	725.57	725.52
	0.9	726.19	726.18	726.17	726.14	726.05	725.92	725.80	725.67	725.58	725.54	725.50
	℄ S ABUT	726.17	726.15	726.15	726.12	726.03	725.90	725.77	725.65	725.56	725.52	725.48

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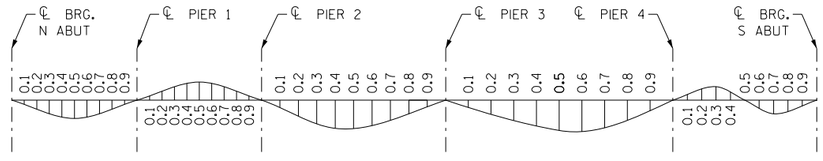
DEAD LOAD DEFLECTIONS ◥

	LOCATION	GIRDER 7	GIRDER 8-11	GIRDER 12
	℄ N ABUT	0.0	0.0	0.0
SPAN 1	0.1	0.1	0.1	0.1
	0.2	0.2	0.2	0.2
	0.3	0.2	0.3	0.3
	0.4	0.2	0.3	0.3
	0.5	0.2	0.3	0.3
	0.6	0.2	0.3	0.3
	0.7	0.2	0.2	0.2
	0.8	0.1	0.1	0.1
	0.9	0.0	0.1	0.1
	℄ PIER 1	0.0	0.0	0.0
SPAN 2	0.1	0.0	0.0	0.0
	0.2	0.0	0.0	0.0
	0.3	0.0	0.0	0.0
	0.4	0.0	0.0	0.0
	0.5	0.0	-0.1	-0.1
	0.6	0.0	-0.1	-0.1
	0.7	-0.1	-0.1	-0.1
	0.8	-0.1	-0.1	-0.1
	0.9	0.0	0.0	0.0
	℄ PIER 2	0.0	0.0	0.0
SPAN 3	0.1	0.1	0.1	0.1
	0.2	0.3	0.3	0.3
	0.3	0.4	0.5	0.5
	0.4	0.4	0.5	0.5
	0.5	0.4	0.5	0.5
	0.6	0.3	0.4	0.4
	0.7	0.2	0.2	0.2
	0.8	0.0	0.0	0.0
	0.9	0.0	0.0	0.0
	℄ PIER 3	0.0	0.0	0.0
SPAN 4	0.1	0.2	0.3	0.3
	0.2	0.6	0.8	0.7
	0.3	1.0	1.3	1.2
	0.4	1.3	1.7	1.6
	0.5	1.4	1.8	1.8
	0.6	1.3	1.8	1.7
	0.7	1.1	1.4	1.3
	0.8	0.7	0.9	0.9
	0.9	0.3	0.4	0.4
	℄ PIER 4	0.0	0.0	0.0
SPAN 5	0.1	-0.1	-0.1	-0.1
	0.2	-0.1	-0.1	-0.1
	0.3	-0.1	-0.1	-0.1
	0.4	0.0	-0.1	-0.1
	0.5	0.0	0.0	0.0
	0.6	0.0	0.0	0.0
	0.7	0.1	0.1	0.1
	0.8	0.1	0.1	0.1
	0.9	0.0	0.0	0.0
	℄ S ABUT	0.0	0.0	0.0



DEFLECTION DIAGRAM

◥ DEFLECTIONS ARE GIVEN IN INCHES
NEGATIVE DEFLECTION INDICATES UPWARD DEFLECTION
DEFLECTIONS ARE THEORETICAL AND MAY VARY IN THE FIELD.

NOTES

A 1¼" MINIMUM HAUNCH IS REQUIRED AT THE EDGE OF GIRDER. IF A 1¼" MINIMUM HAUNCH HEIGHT CANNOT BE MAINTAINED THE GRADE LINE MAY BE REVISED BY THE ENGINEER IN THE FIELD AT THE OPTION OF THE CONTRACTOR. THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN AND PROFILE BY MORE THAN ½"

THE FOLLOWING AVERAGE HAUNCH DEPTHS ('T') WERE USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

GIRDER 7: 3.9"
GIRDERS 8-10: 4.0"
GIRDER 11: 4.6"
GIRDER 12: 5.5"

'T' = HAUNCH HEIGHT AT ℄ GIRDER

TO DERTERMINE 'T': AFTER EXISTING DECK HAS BEEN REMOVED, AND ABUTMENT BEARINGS HAVE BEEN REPLACED, ELEVATIONS OF THE TOP FLANGES SHALL BE TAKEN AT CENTERLINES OF BEARING AND AT 0.1 POINTS.

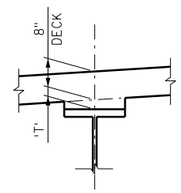
TOP OF DECK ELEVATION AT FINAL GRADE

\- TOP OF STEEL ELEVATION AFTER EXISTING DECK HAS BEEN REMOVED

\+ DEAD LOAD DEFLECTION (DOWNWARD DEFLECTION IS ADDED, UPWARD DEFLECTION IS SUBTRACTED)

\- DECK THICKNESS

= 'T' VALUE FOR SETTING HAUNCH



SLAB HAUNCH DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

DECK ELEVATIONS

SHEET 10 OF 19

104

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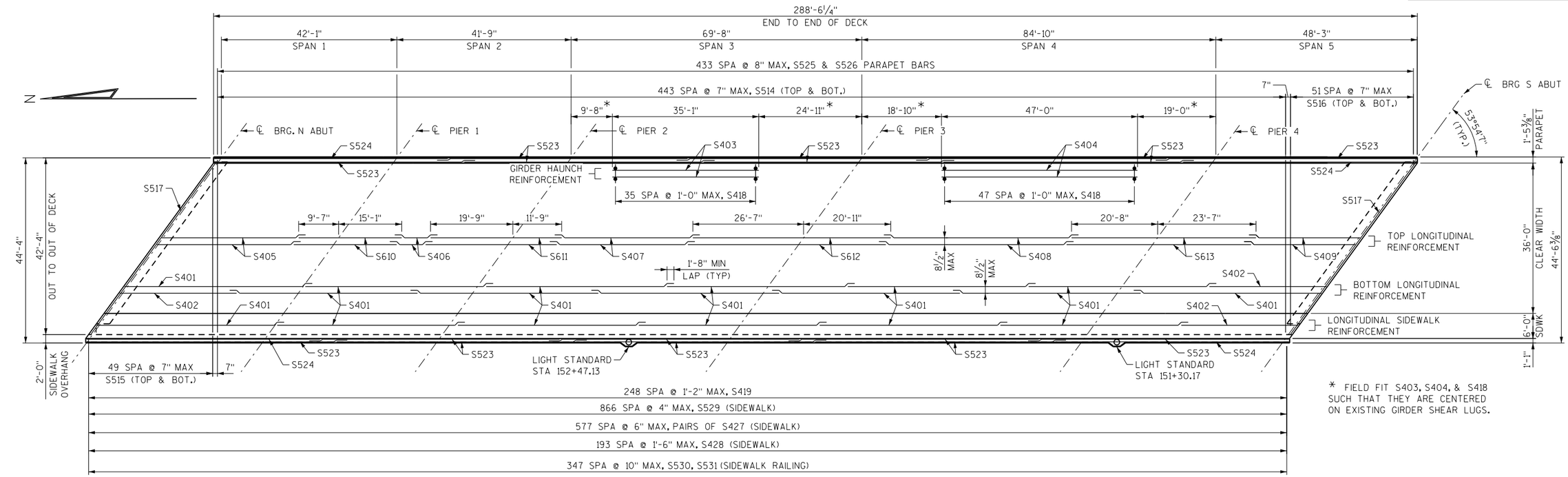
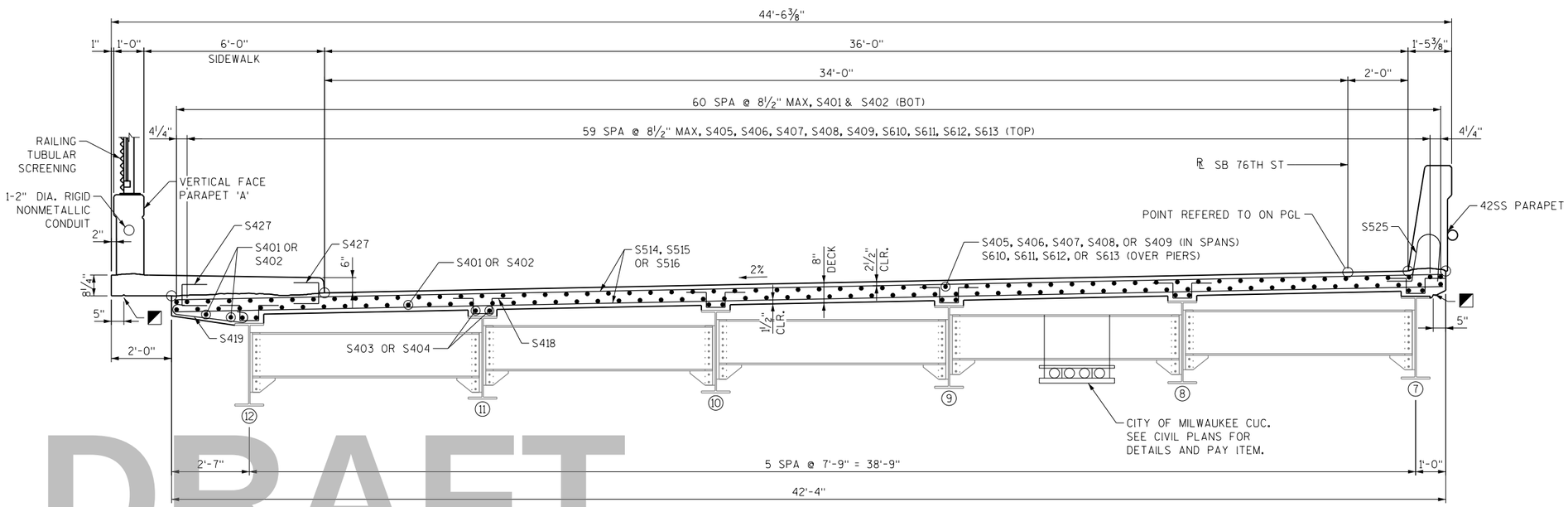
STATE PROJECT NUMBER

1360-13-70



* FIELD FIT S403, S404, & S418 SUCH THAT THEY ARE CENTERED ON EXISTING GIRDER SHEAR LUGS.

DECK PLAN



TYPICAL SECTION THRU DECK
(LOOKING NORTH)

NOTES:

SEE SHEET 11 FOR SUPERSTRUCTURE BILL OF BARS AND DECK DETAILS

SEE SHEET 9 FOR TOP OF DECK ELEVATIONS

SEE SHEET 12 FOR 42SS PARAPET DETAILS

SEE SHEET 13 FOR VERTICAL FACE PARAPET 'A' DETAILS

SEE SHEET 14 FOR RAILING TUBULAR SCREENING

SEE SHEET 11 FOR SIDEWALK DETAILS

SEE SHEET 17 FOR LIGHT STANDARD DETAIL

○ INDICATES T/SLAB ELEVATION LOCATION

◪ ¾" V-GROOVE TO EXTEND TO 2'-0" FROM FRONT FACE OF ABUTMENT BODY

Ⓧ INDICATES GIRDER NUMBER

ALTERNATE LAP LOCATIONS IN PARAPET, SIDEWALK AND DECK LONGITUDINAL BARS AS SHOWN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

SUPERSTRUCTURE REINFORCEMENT

SHEET 11 OF 19

105

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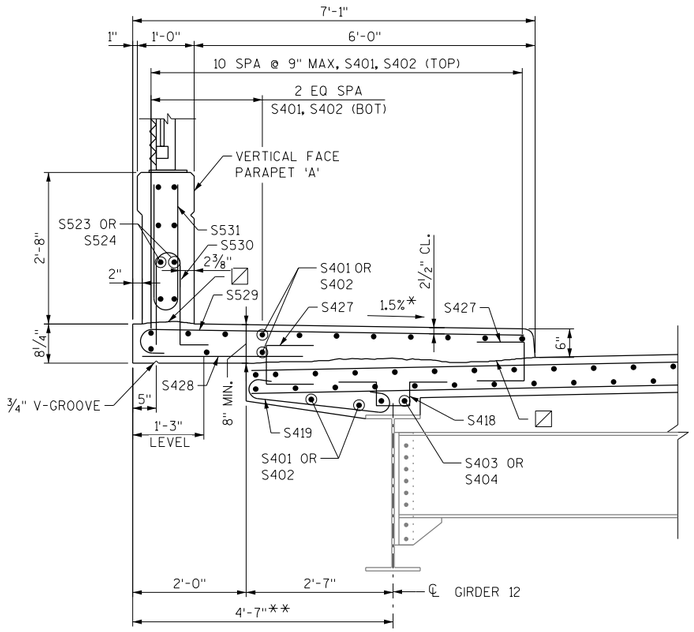
STATE PROJECT NUMBER

1360-13-70

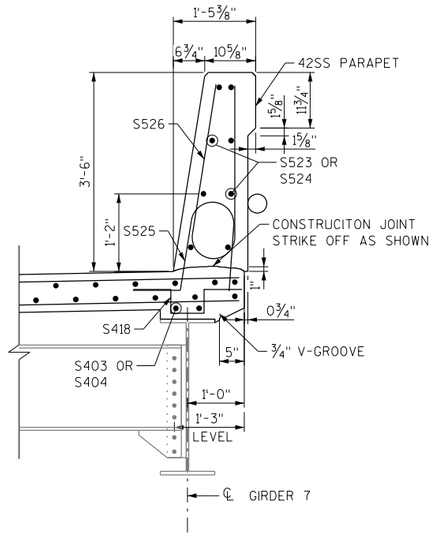


SECTION THROUGH PARAPET AND
SIDEWALK AT WEST OVERHANG

* THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR ENGINEER APPROVAL

▨ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH. FOR DECK POUR, MATCH BRIDGE X-SLOPE.

SEE SHEET 13 FOR DEFLECTION JOINT DETAILS.



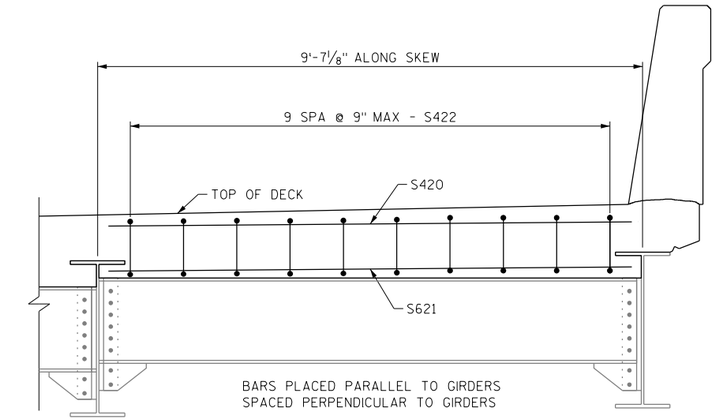
SECTION THROUGH PARAPET
AT EAST OVERHANG

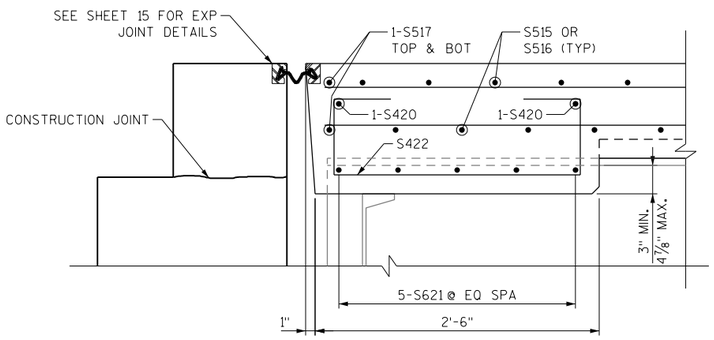
BILL OF BARS - DECK

BAR NO.	COATED BAR	NO. REQ'D	LENGTH	BENT BAR	BUNDLED	BAR SERIES	105,157 # COATED -- # UNCOATED LOCATION
S401	X	462	45'-0"				DECK & SIDEWALK LONGITUDINAL - TOP & BOTTOM
S402	X	77	28'-2"				DECK & SIDEWALK LONGITUDINAL - TOP & BOTTOM
S403	X	12	35'-1"				DECK LONGITUDINAL - HAUNCH SPAN 3
S404	X	12	47'-0"				DECK LONGITUDINAL - HAUNCH SPAN 4
S405	X	62	35'-2"				DECK LONGITUDINAL - TOP SPAN 1
S406	X	62	10'-3"				DECK LONGITUDINAL - TOP SPAN 2
S407	X	62	34'-9"				DECK LONGITUDINAL - TOP SPAN 3
S408	X	62	46'-7"				DECK LONGITUDINAL - TOP SPAN 4
S409	X	62	27'-4"				DECK LONGITUDINAL - TOP SPAN 5
S610	X	62	24'-8"				DECK LONGITUDINAL - TOP PIER 1
S611	X	62	31'-6"				DECK LONGITUDINAL - TOP PIER 2
S612	X	62	47'-6"				DECK LONGITUDINAL - TOP PIER 3
S613	X	62	44'-3"				DECK LONGITUDINAL - TOP PIER 4
S514	X	888	42'-0"				DECK TRANSVERSE - TOP AND BOTTOM
S515	X	100	20'-8"			X	DECK TRANSVERSE - TOP AND BOTTOM NORTH END SERIES
S516	X	104	21'-3"			X	DECK TRANSVERSE - TOP AND BOTTOM SOUTH END SERIES
S517	X	4	50'-9"				DECK TRANSVERSE - DECK ENDS TOP & BOTTOM
S418	X	504	2'-10"	X			DECK TRANSVERSE - HAUNCH
S419	X	249	3'-2"	X			DECK TRANSVERSE - OUTSIDE OVERHANG
S420	X	40	9'-3"				DIAPHRAGM & JOINT - TOP
S621	X	50	9'-3"				DIAPHRAGM - BOTTOM
S422	X	100	3'-10"	X			DIAPHRAGM STIRRUPS
S523	X	64	60'-0"				PARAPET HORIZONTAL
S524	X	16	58'-6"				PARAPET HORIZONTAL
S525	X	434	4'-5"	X			42SS PARAPET VERTICAL
S526	X	434	6'-8"	X			42SS PARAPET VERTICAL
S427	X	1156	2'-8"	X			SIDEWALK VERTICAL
S428	X	194	2'-10"				SIDEWALK TRANSVERSE - BOTTOM
S529	X	867	7'-4"	X			SIDEWALK TRANSVERSE - TOP
S530	X	348	4'-4"	X			VERTICAL FACE PARAPET 'A' VERTICAL
S531	X	348	4'-9"	X			VERTICAL FACE PARAPET 'A' VERTICAL
S532	X	8	6'-8"	X			LIGHT STANDARD VERTICAL - PARAPET
S533	X	8	7'-0"	X			LIGHT STANDARD VERTICAL - PARAPET
S534	X	14	10'-3"	X			LIGHT STANDARD HORIZONTAL - PARAPET
S535	X	24	6'-8"				LIGHT STANDARD TRANSVERSE - SIDEWALK BOTTOM
S536	X	4	3'-2"	X			LIGHT STANDARD VERTICAL - PARAPET
S537	X	4	3'-4"	X			LIGHT STANDARD VERTICAL - PARAPET

THE FIRST DIGIT OR FIRST TWO DIGITS OF A BAR MARK INDICATED THE BAR SIZE ALL DIMENSIONS IN THE BAR BENDS ARE OUT TO OUT.

SEE SHEET 17 FOR LIGHT STANDARD DETAILS



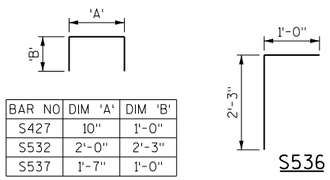


SECTION THROUGH END DIAPHRAGM
AND EXPANSION JOINT

(DIMENSIONS ARE TAKEN NORMAL TO THE ℄ OF THE JOINT)

BAR SERIES TABLE

BAR NO	NUMBER REQUIRED	LENGTH
S515	2 SERIES OF 50	1'-2" TO 40'-1"
S516	2 SERIES OF 52	1'-1" TO 41'-5"

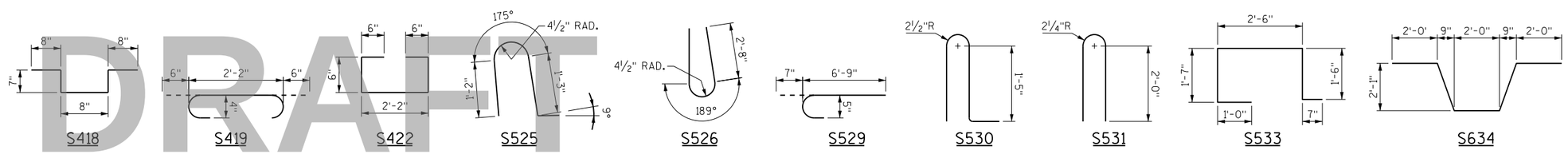


BAR NO	DIM 'A'	DIM 'B'
S427	10"	1'-0"
S532	2'-0"	2'-3"
S537	1'-7"	1'-0"

S536

SECTION AT END DIAPHRAGM

(SHOWING ADDITIONAL DIAPHRAGM REINFORCEMENT ONLY)



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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

SUPERSTRUCTURE DETAILS

SHEET 11 OF 19

106

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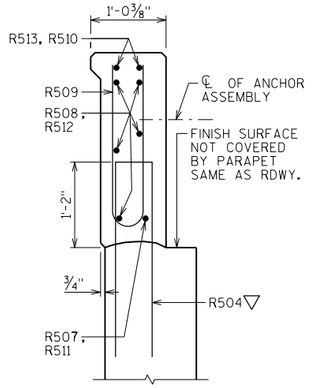
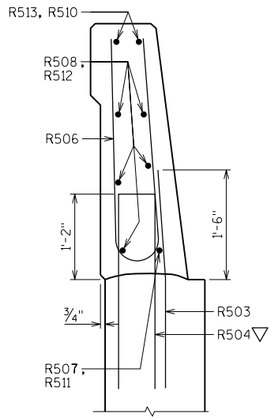
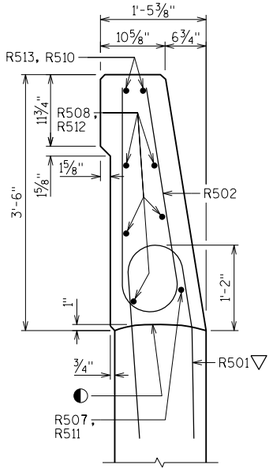
STATE PROJECT NUMBER
1360-13-70



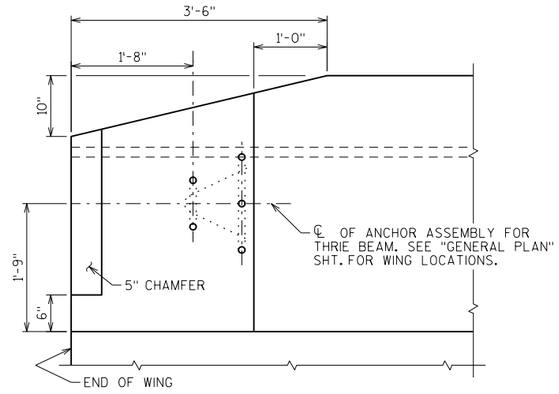
SECTION A-A



SECTION B-B



SECTION C-C



PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET

BILL OF BARS

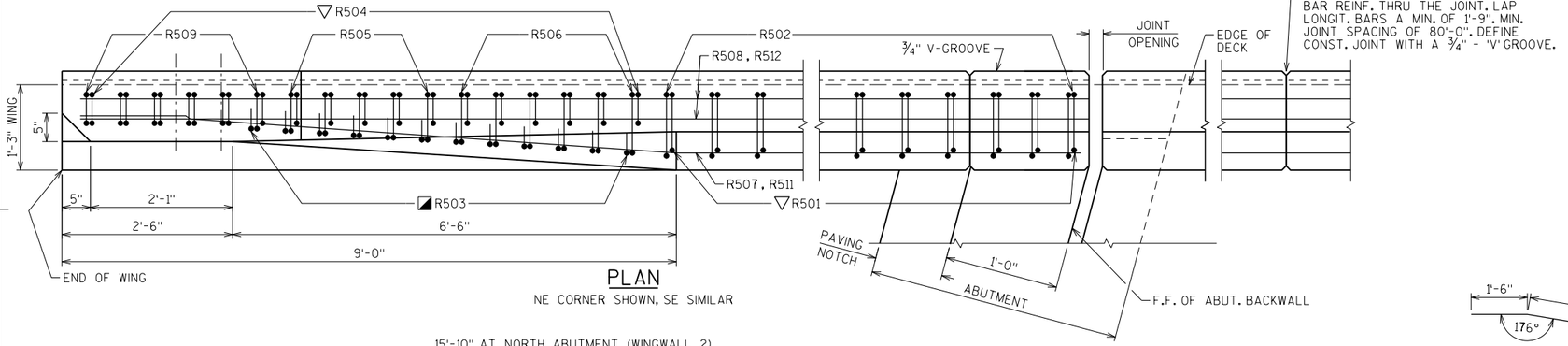
BAR MARK	COAT	NO REQ'D N ABUT.	NO REQ'D S ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	12	14	5'-10	X		PARAPET VERT.
R502	X	12	14	6'-8"	X		PARAPET VERT.
R503	X	11	11	3'-0"	X		PARAPET VERT.
R504	X	17	17	5'-7"	X		PARAPET VERT.
R505	X	5	5	6'-5"	X		PARAPET VERT.
R506	X	6	6	6'-6"	X		PARAPET VERT.
R507	X	1		15'-5"	X		PARAPET HORIZ.
R508	X	5		15'-6"			PARAPET HORIZ.
R509	X	6	6	5'-5"	X	⚠	PARAPET VERT.
R510	X	2		15'-5"	X		PARAPET HORIZ.
R511	X		1	16'-10"	X		PARAPET HORIZ.
R512	X		5	16'-11"			PARAPET HORIZ.
R513	X		2	16'-10"	X		PARAPET HORIZ.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

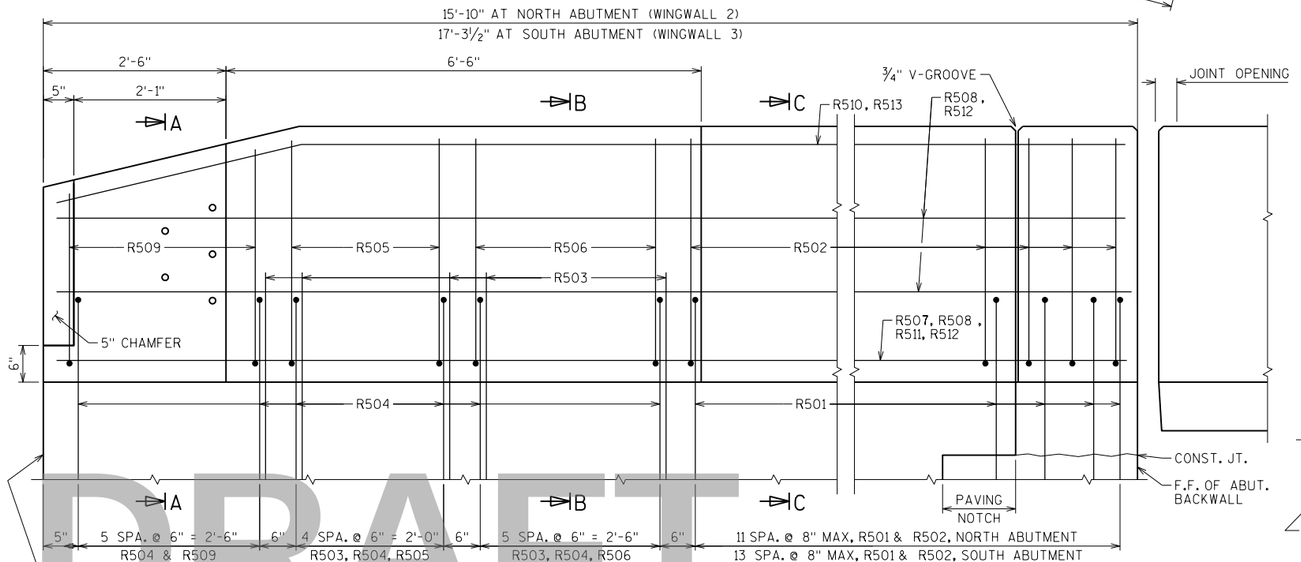
BAR MARK	NO. REQ'D	LENGTH
R509	2 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.



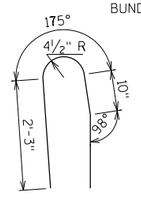
PLAN

NE CORNER SHOWN, SE SIMILAR



INSIDE ELEVATION

NE CORNER SHOWN, SE SIMILAR



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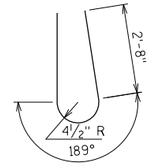

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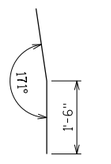

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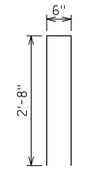

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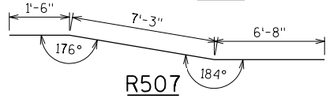

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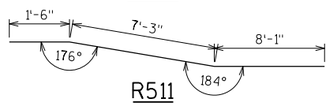

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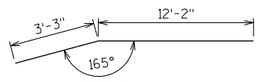

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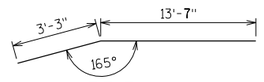

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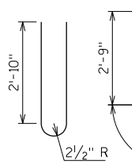

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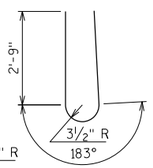

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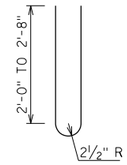
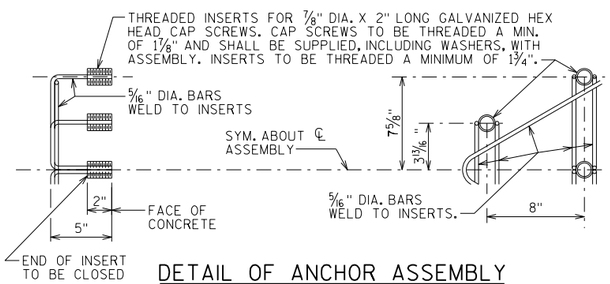


R509

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◪ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

SINGLE SLOPE PARAPET 42SS

SHEET 13 OF 19

107

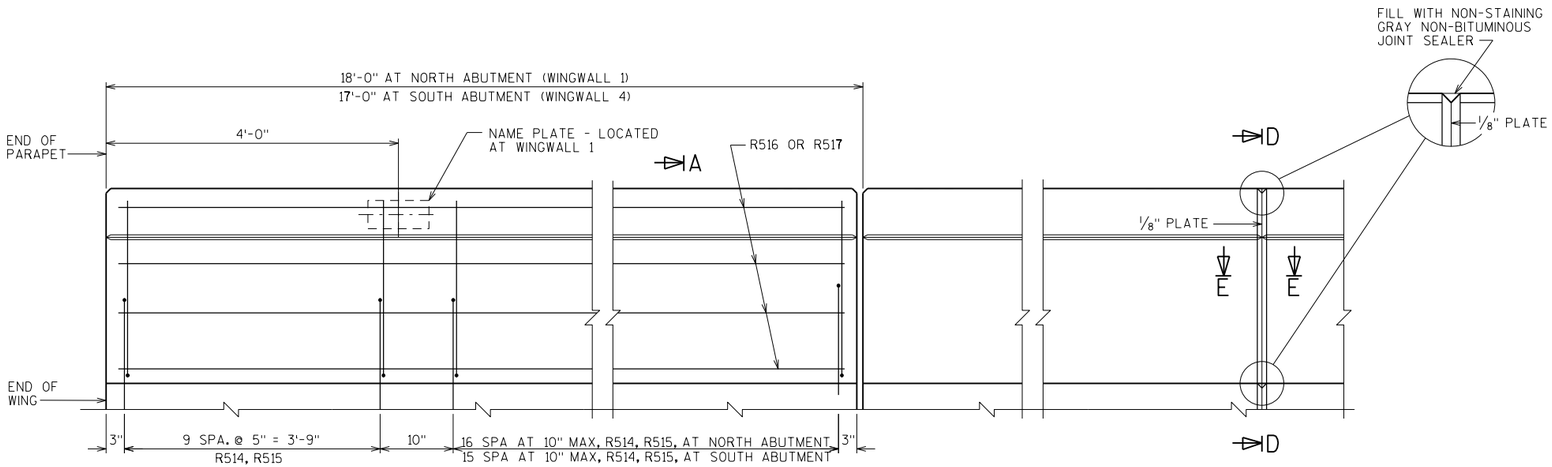
FILE= B-40-255_130_42SS.DGN
SCALE = 1:1

DRAFT

8

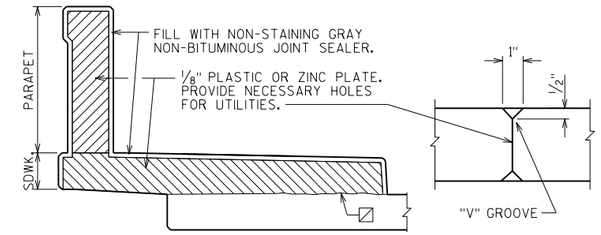
8

STATE PROJECT NUMBER
1360-13-70



AT ABUTMENTS

AT DEFLECTION JOINTS

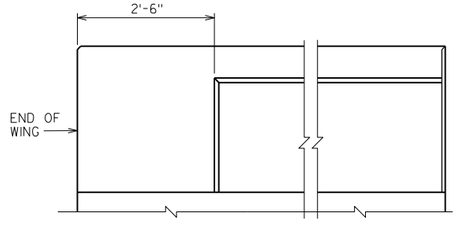


SECTION D-D

SECTION E-E

(SHOWING DEFLECTION JOINT IN PARAPET AND SIDEWALK.)

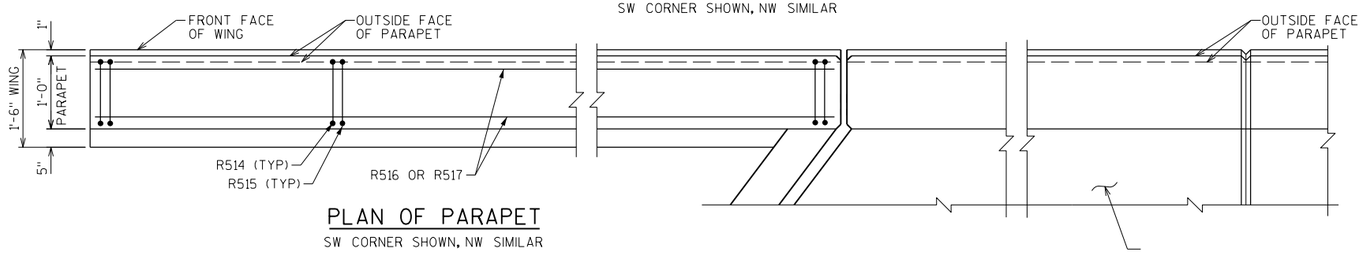
WHEN PARAPETS ARE POURED CONTINUOUSLY FROM END TO END, THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF 1/8" ZINC OR PLASTIC PLATE CUT AS SHOWN IN SECTION A-A BY SHADED AREA. IF CONSTRUCTION JOINTS IN PARAPETS ARE USED AT THE DEFLECTION JOINTS, ONE SIDE OF JOINT SHALL BE COATED WITH AN APPROVED LIQUID BOND BREAKER AND PLATE SEPARATORS MAY BE OMITTED.



OUTSIDE FACE OF PARAPET

INSIDE ELEVATION OF PARAPET

SW CORNER SHOWN, NW SIMILAR

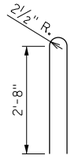


PLAN OF PARAPET

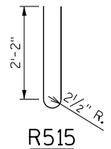
SW CORNER SHOWN, NW SIMILAR

BILL OF BARS

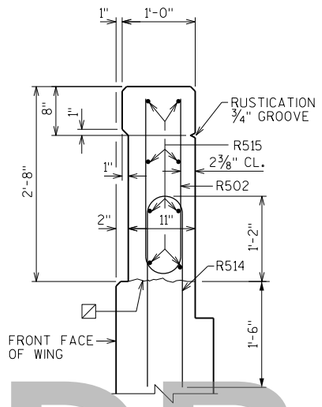
BAR MARK	COAT	NO. REQ'D N ABUT.	NO. REQ'D S ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R514	X	27	26	6'-0"	X		PARAPET VERT.
R515	X	27	26	5'-0"	X		PARAPET VERT.
R516	X	8		17'-8"			PARAPET HORIZ.
R517	X		8	16'-8"			PARAPET HORIZ.



R514



R515



SECTION A-A

CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

DRAFT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

VERTICAL FACE PARAPET "A"

SHEET 15 OF 19

108

FILE= B-40-255_140_VERTPPTA.DGN

SCALE = 1:1

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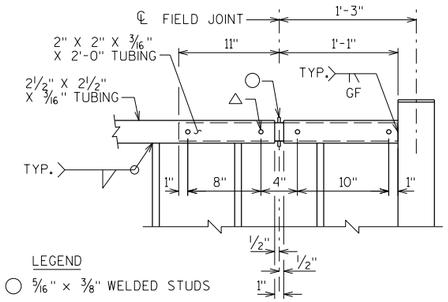
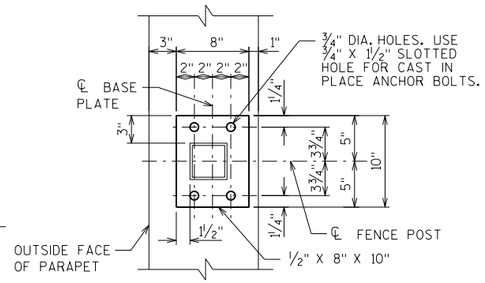
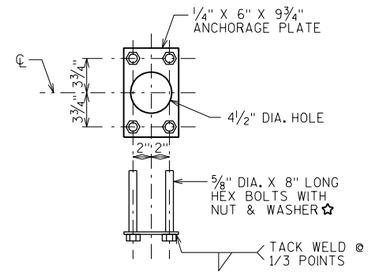


RAILING EXPANSION JOINT DETAIL



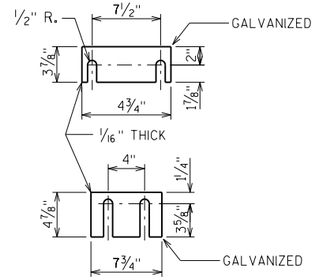
BASE PLATE



ANCHORAGE DETAIL

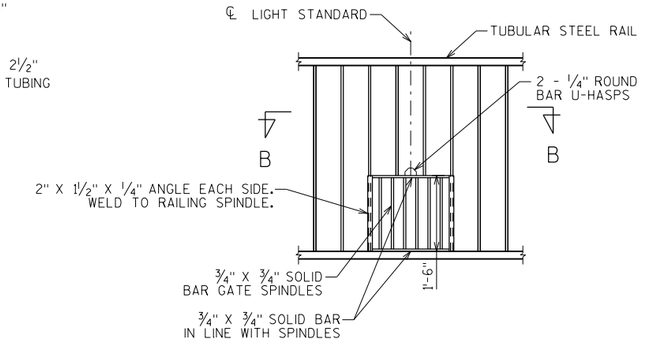
✩ALTERNATIVE ANCHORAGE: ADHESIVE ANCHORS ⅝-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.

NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.

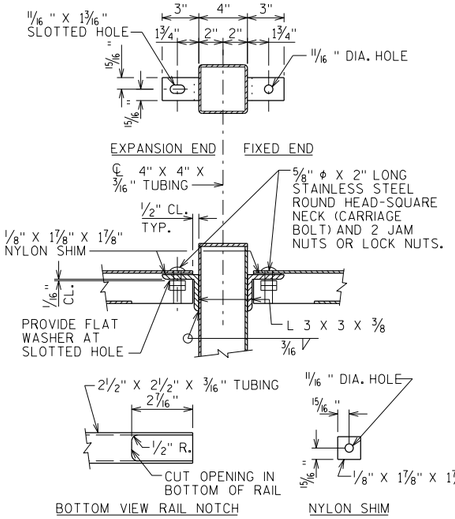


SHIM PLATE DETAILS

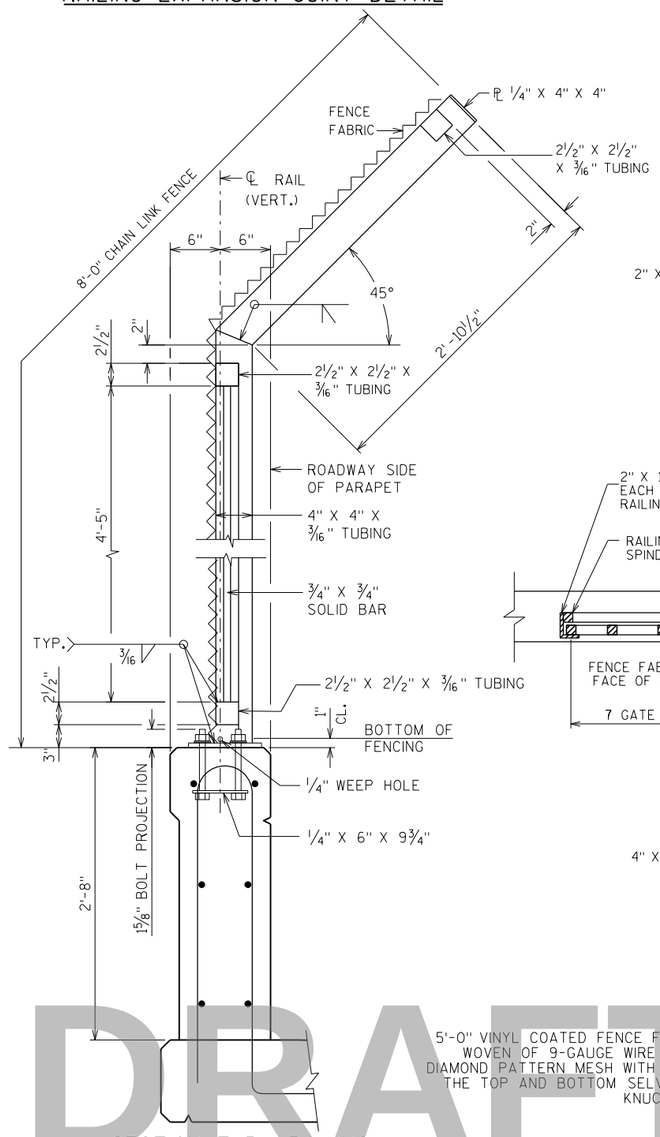
TWO SHIMS OF EACH SIZE REQUIRED PER POST



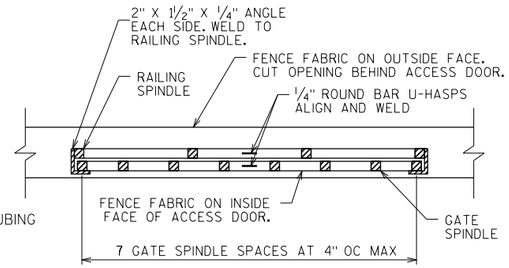
RAILING ACCESS DOOR ELEVATION



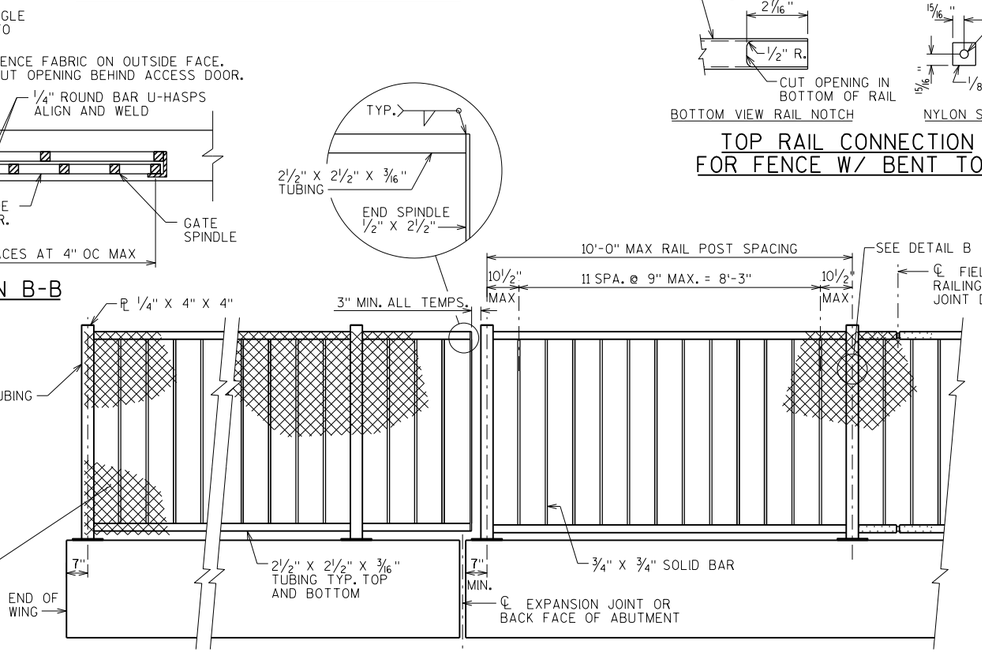
TOP RAIL CONNECTION FOR FENCE W/ BENT TOP



SECTION THRU RAILING

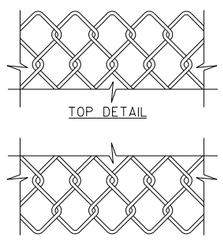


SECTION B-B

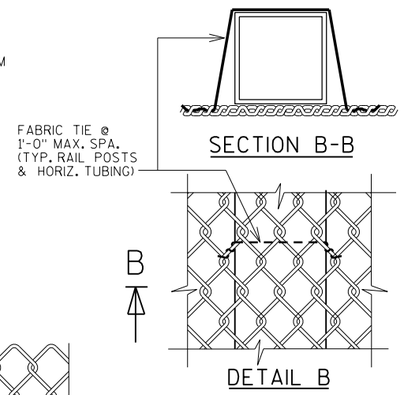


INSIDE ELEVATION OF RAILING

STRAIGHT RAIL SHOWN (BENT RAIL SIMILAR)



FENCE FABRIC



NOTES

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. PLATES, ANGLES, BARS AND SHIMS SHALL CONFORM TO ASTM A709, GRADE 36. FENCE FABRIC SHALL CONFORM TO F668, CLASS 2B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.

ALL POST SPACINGS ARE TAKEN HORIZONTAL ALONG CENTERLINE OF RAILING AT BASE OF POST.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN TRANSVERSE DIRECTION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED. ✩

THE BID ITEM SHALL BE "RAILING TUBULAR SCREENING" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 POSTS.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

ALL RAILING MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

THE END OF THE FABRIC SHALL BE ATTACHED TO THE POST BY MEANS OF A TENSION BAR THREADED THROUGH THE END LOOPS OF THE FABRIC AND SECURED TO THE POST WITH CLAMPS & BOLT. THE FABRIC SHALL BE STRETCHED TO REMOVE ALL SLACK.

STATE PROJECT NUMBER
1360-13-70

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

TUBULAR STEEL RAILING SCREENING

SHEET 15 OF 19

109

FILE= B-40-255_150_TUBERAIL.DGN
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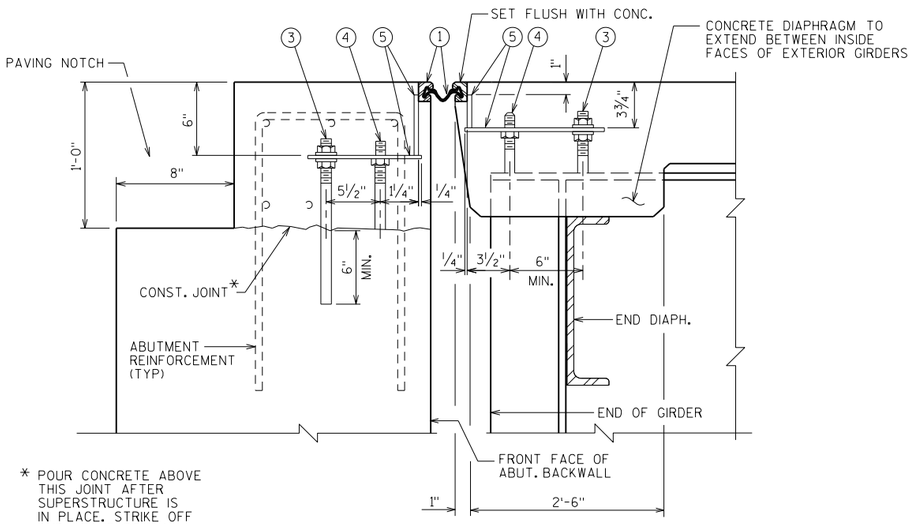
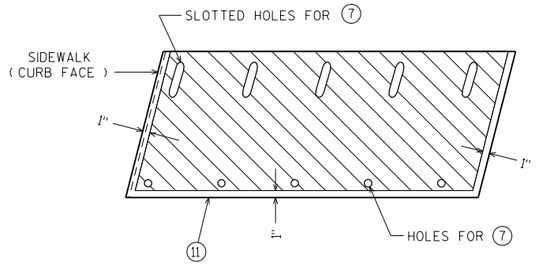


* POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE



PLAN OF SIDEWALK COVER PLATE WITH SLIP-RESISTANT SURFACE

PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN HATCHED AREA ONLY (NOT ON CURB FACE).

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

LEGEND

① NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.

② STUDS $\frac{5}{8}$"Φ X 6$\frac{3}{8}$" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.

(2A) $\frac{1}{2}$" THICK ANCHOR PLATE WITH $\frac{5}{8}$"Φ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.

③ $\frac{3}{4}$" Φ THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE, GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.

④ $\frac{3}{4}$"Φ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.

⑤ FABRICATE SUPPORT FROM 3" X $\frac{1}{2}$" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1$\frac{1}{2}$" Φ HOLE FOR NO. 3 & 1" Φ HOLE FOR NO. 4.

⑥ GALVANIZED PLATE $\frac{3}{8}$" X 10" X 2'-2" LONG WITH HOLES FOR NO. 7.

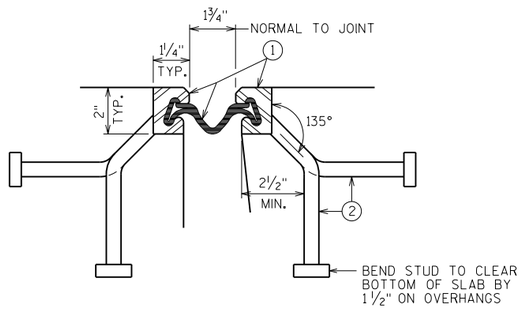
⑦ $\frac{3}{4}$"Φ X 1$\frac{1}{2}$" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS $\frac{1}{16}$" BELOW PLATE SURFACE.

⑧ $\frac{3}{4}$"Φ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.

⑨ $\frac{3}{4}$"Φ X 2$\frac{1}{4}$" GALVANIZED THREADED COUPLING.

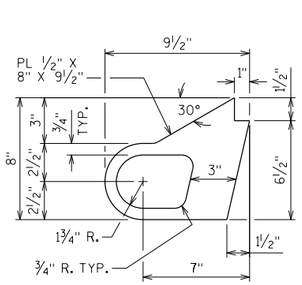
⑩ 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.

⑪ SIDEWALK COVER PLATE $\frac{3}{8}$" X 2'-0" X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

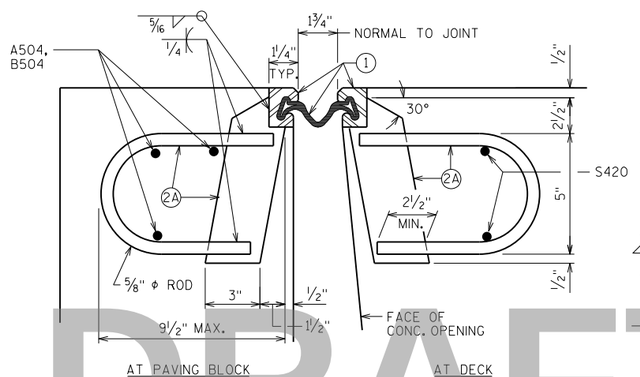


SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS

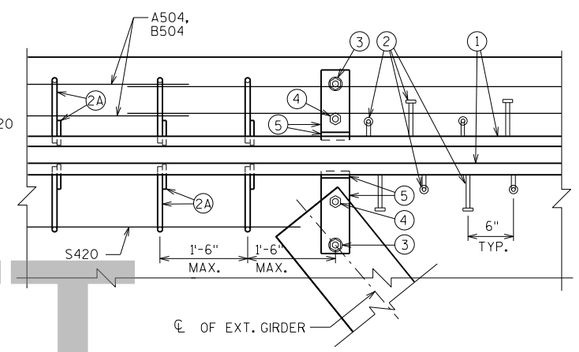


ALTERNATE STRIP SEAL ANCHOR



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, ANCHOR PLATES SHALL BE PROVIDED 3" FROM EACH SIDE OF THE FIELD SPLICE. DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE", LF.

DRAFT

STATE PROJECT NUMBER

1360-13-70

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

EXPANSION DEVICE

SHEET 16 OF 19

110

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SCALE = 1:1

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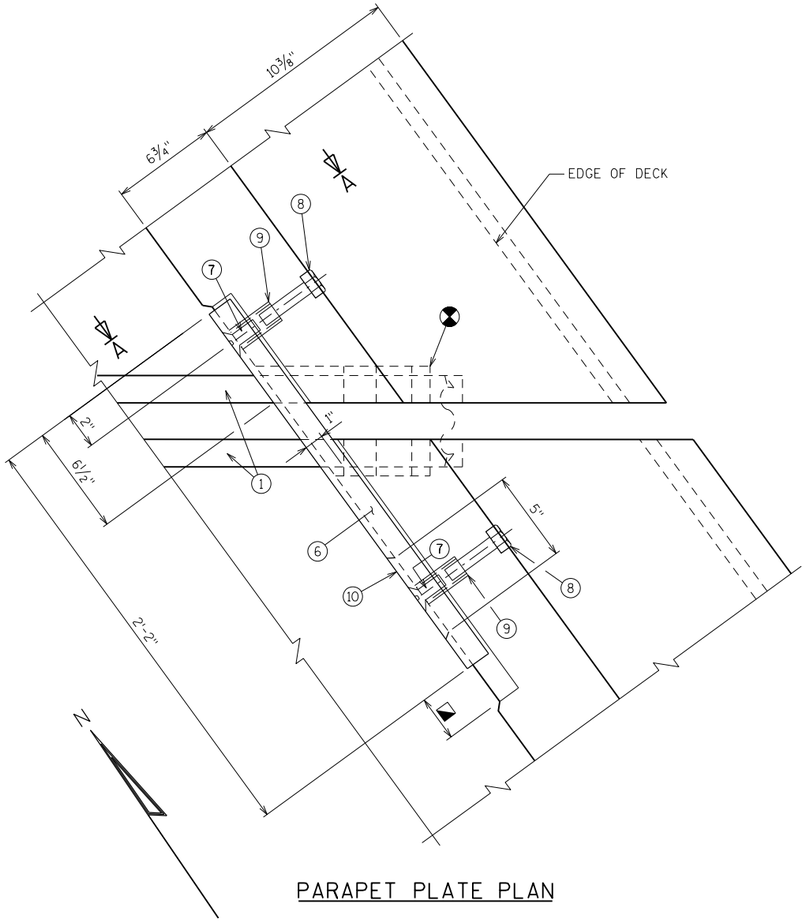
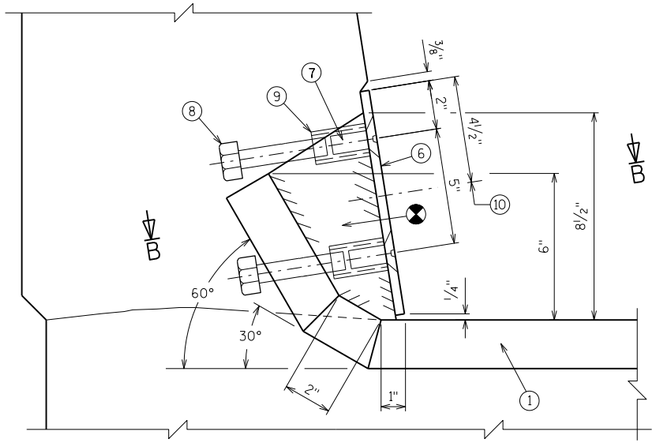
STATE PROJECT NUMBER

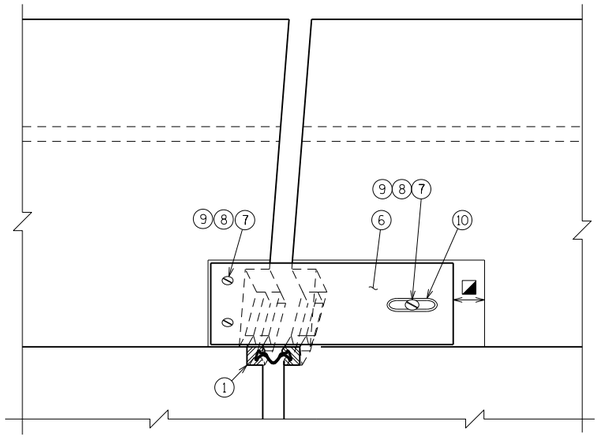
1360-13-70



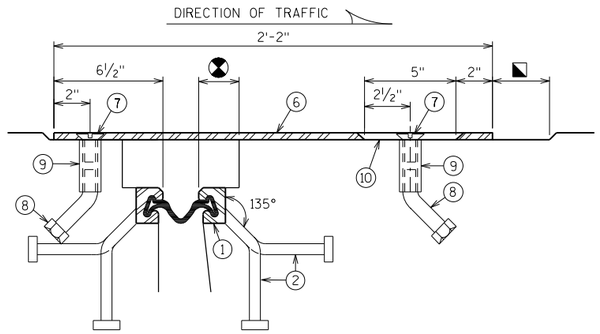
PARAPET PLATE PLAN



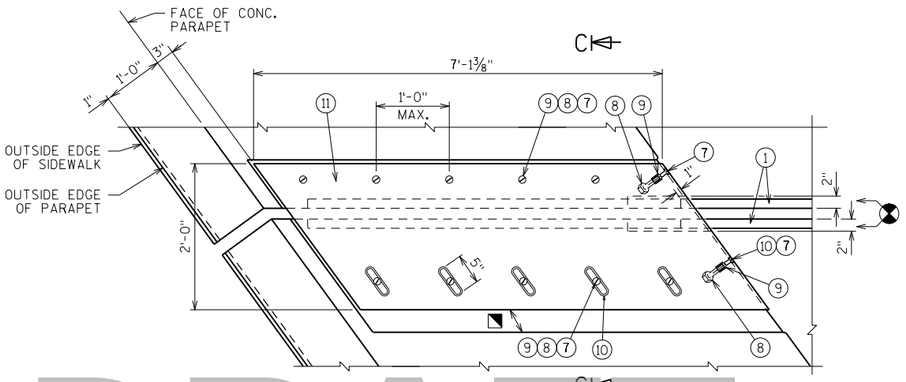
SECTION A-A



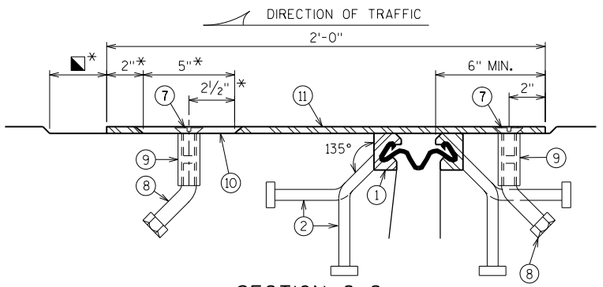
VIEW OF PARAPET PLATE FROM ROADWAY



SECTION B-B

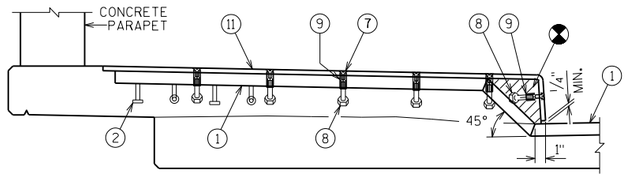


SIDEWALK PLATE PLAN



SECTION C-C

* DIMENSION ALONG DIRECTION OF MOVEMENT



SECTION AT SIDEWALK

⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

◪ JOINT OPENING DIMENSION ALONG SKEW PLUS ½".

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

COVER PLATE DETAILS

SHEET 17 OF 19

111

FILE= B-40-255_1TO_COVERPLATES.DGN

SCALE = 1:1

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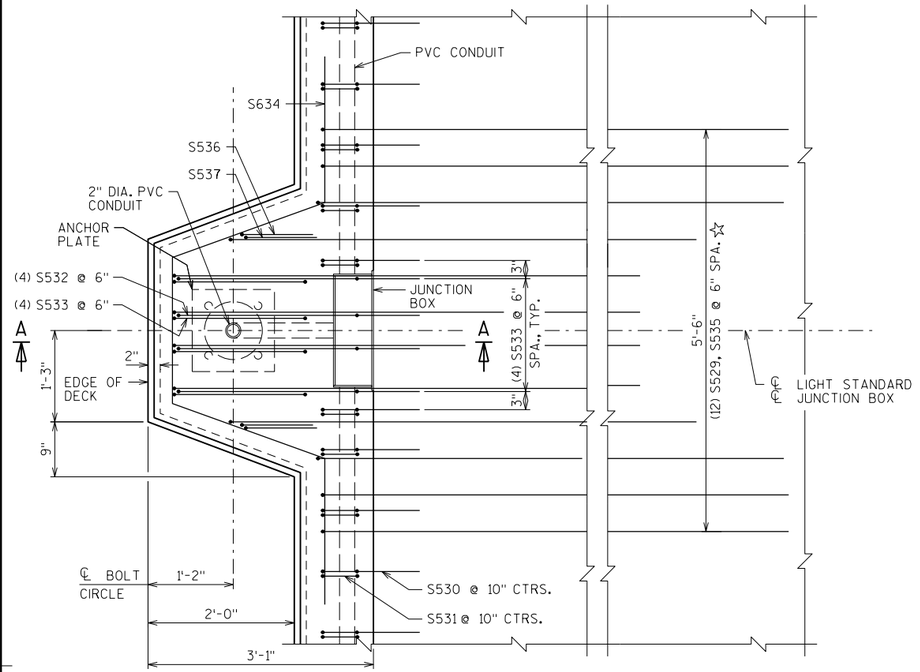
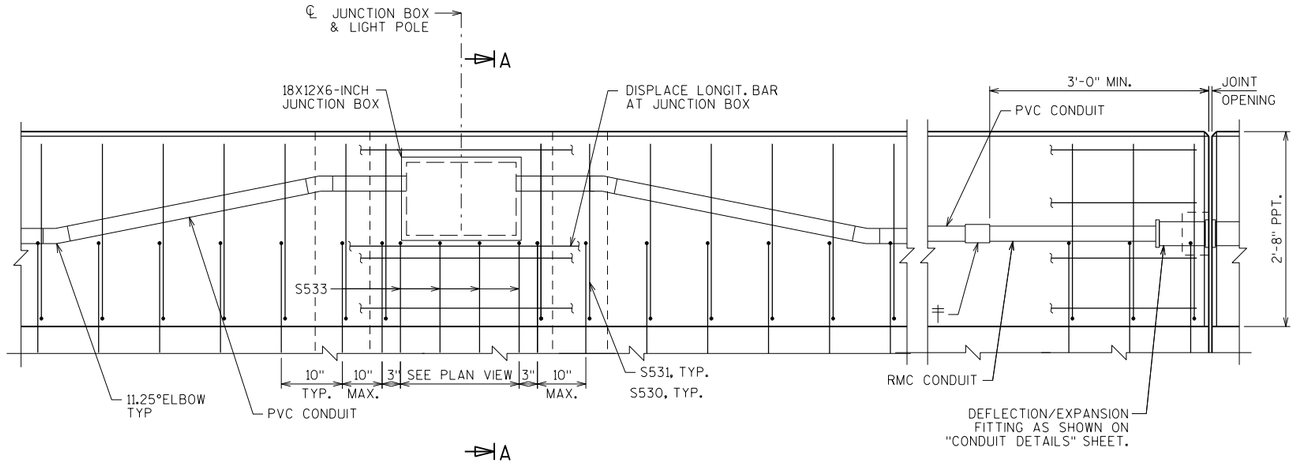
STATE PROJECT NUMBER

1360-13-70



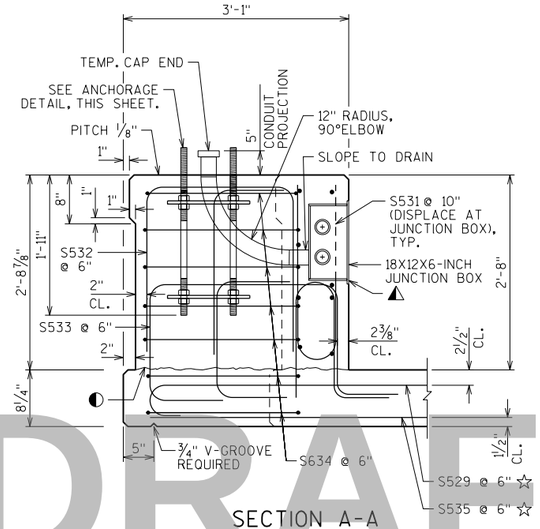
PLAN AT LIGHT STANDARD

(DECK STEEL NOT SHOWN FOR CLARITY)



INSIDE ELEVATION AT JUNCTION BOX

(DECK STEEL NOT SHOWN FOR CLARITY)



SECTION A-A

NOTES

BID ITEM SHALL BE "ANCHOR ASSEMBLIES POLES ON STRUCTURES", EACH

CONDUIT SHALL BE EMBEDDED 2" CLEAR.

USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.

CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.

PROVIDE JUNCTION BOXES FROM THE APPROVED PRODUCTS LIST.

SEE "CONDUIT DETAILS" SHEET FOR ADDITIONAL INFORMATION.

3/8" NYLON PULL WIRE/ROPE IS REQUIRED FOR ALL CONDUIT AND SHALL BE INCIDENTAL TO CONDUIT INSTALLATION

ANCHOR BOLTS FOR ANCHOR ASSEMBLIES MUST BE INSTALLED PERPENDICULAR TO THE HORIZON

THE TOP OF THE LIGHT STANDARD SHALL HAVE A 1/8" PITCH FORM THE OUTSIDE FACE OF THE PARAPET TO THE OUTSIDE FACE OF THE LIGHT STANDARD.

LEGEND

◐ CONSTRUCTION JOINT, STRIKE OFF AS SHOWN.

◭ CUT OUT ± 1" OF GASKET AT BOTTOM OF JUNCTION BOX COVER TO ALLOW FOR DRAINAGE.

▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE EDGE OF JUNCTION BOX.

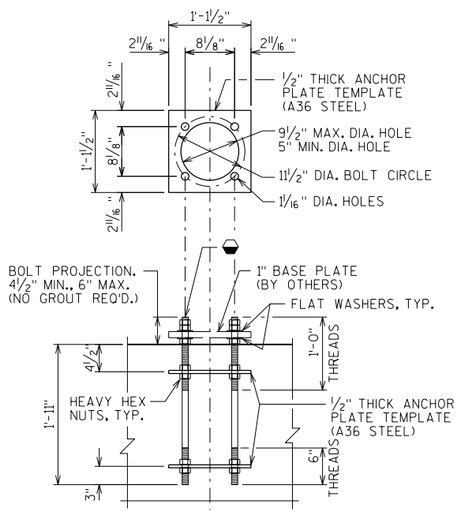
⫩ NONMETALLIC CONDUIT TO METALLIC CONDUIT ADAPTER FITTING (UL OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED).

PVC = POLYVINYL CHLORIDE (RIGID NONMETALLIC) CONDUIT

RMC = RIGID METALLIC CONDUIT

☆ THESE BARS ARE IN ADDITION TO STANDARD TRANSVERSE BARS IN SIDEWALK.

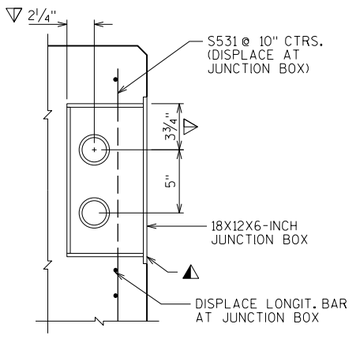
◒ 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.



ANCHOR ROD ASSEMBLY DETAIL

(REQ'D.)

(4) - ANCHOR RODS REQUIRED PER ASSEMBLY



JUNCTION BOX DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

LIGHT SUPPORT DETAILS

SHEET 18 OF 19

112

FILE= B-40-255.180_LIGHTSTD.DGN
SCALE = 1:1

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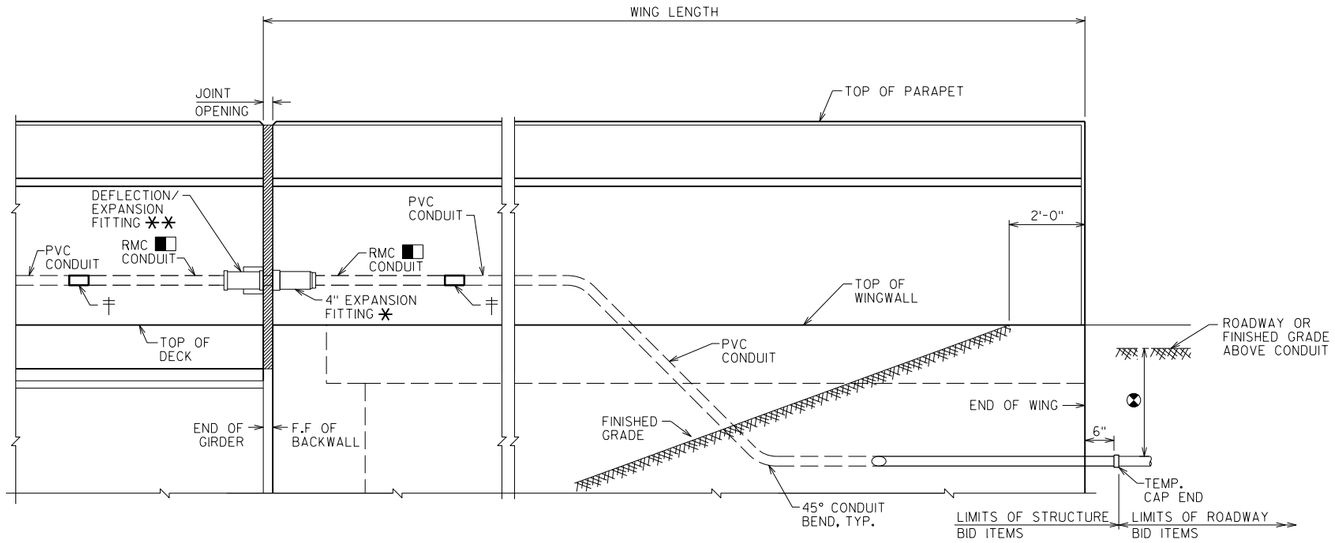
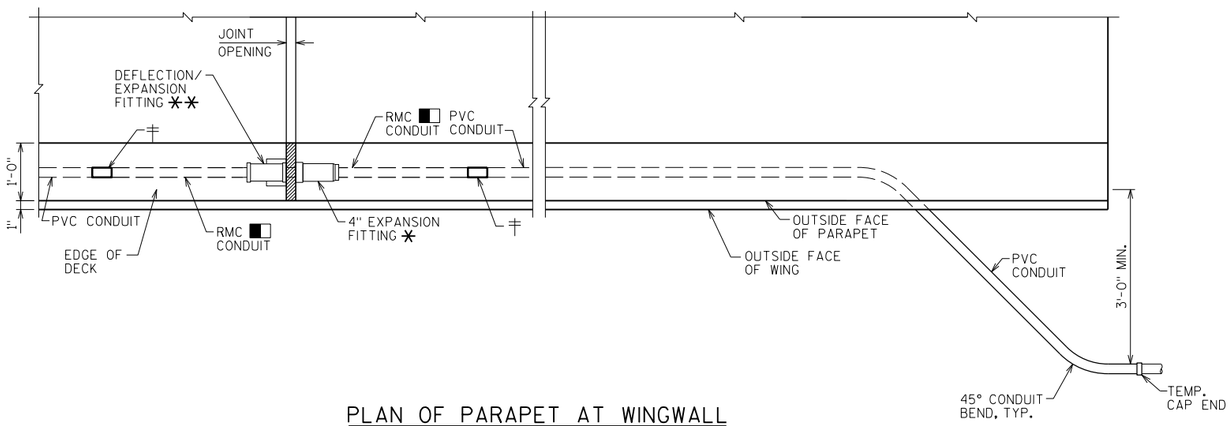
STATE PROJECT NUMBER

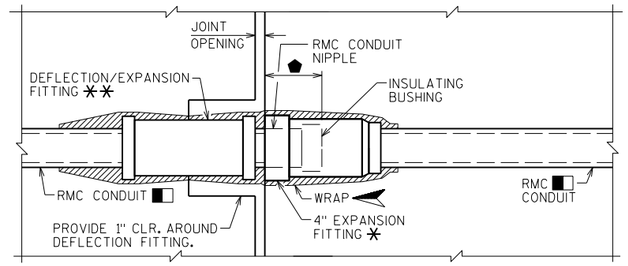
1360-13-70



OUTSIDE ELEVATION OF PARAPET AT WINGWALL



PLAN OF PARAPET AT WINGWALL



DEFLECTION/EXPANSION AND 4" EXPANSION FITTING

THIS DETAIL ACCOMMODATES A MAXIMUM OF 4" TOTAL MOVEMENT AND UP TO 30 DEGREES OF ANGULAR MISALIGNMENT IN ANY DIRECTION. BOND JUMPER NOT SHOWN FOR CLARITY

LEGEND

■ USE 2" DIA. RIGID METALLIC (RMC) CONDUIT AT FITTINGS. PROVIDE RMC FOR 3'-0" MIN. ON EACH SIDE OF JOINT OPENINGS UNLESS NOTED OTHERWISE.

┼ NONMETALLIC CONDUIT TO METALLIC CONDUIT ADAPTER FITTING (UL OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED).

◥ SPONGE RUBBER WRAP TO BE AASHTO M153, TYPE 1 OR EQUIVALENT - 1/4" MINIMUM THICKNESS. PROVIDE WRAP FOR THE ENTIRE LENGTH OF THE FITTING OR AS SHOWN. SPONGE RUBBER WRAP INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".

⬟ POSITION MOVABLE END OF CONDUIT INSIDE EXPANSION FITTING, SUCH THAT IT WILL HAVE THE SAME ALLOWANCE FOR MOVEMENT (EXPANSION/CONTRACTION) AS THE EXPANSION DEVICE SET IN PLACE IN THE DECK BELOW IT. TAKE CARE TO INSTALL EXPANSION FITTING AND CONDUIT EXACTLY PARALLEL TO BRIDGE MOVEMENT.

⊗ 2'-0" MIN. CONDUIT COVER UNDER ROADWAYS, 1'-6" OTHERWISE. CONDUIT COVER SHOULD NOT EXCEED 3'-0".

✳ EXPANSION FITTING REQUIREMENTS (IF USED):
- 4" TOTAL MOVEMENT WITH BONDING JUMPER
- 8" TOTAL MOVEMENT WITH BONDING JUMPER

✳✳ DEFLECTION/EXPANSION FITTING REQUIREMENTS (IF USED):
- UP TO 3/4" CONDUIT CONTRACTION OR EXPANSION AND UP TO 30° OF ANGULAR MISALIGNMENT IN ANY DIRECTION WITH BONDING JUMPER

NOTES

CONDUIT SHALL BE EMBEDDED 2" CLEAR.

USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.

CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.

CONDUIT BENDS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE.

3/8" NYLON PULL WIRE/ROPE IS REQUIRED FOR ALL CONDUIT AND SHALL BE INCIDENTAL TO CONDUIT INSTALLATION.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-255

DRAWN BY JAP | PLANS CK'D. WJZ

CONDUIT DETAILS

SHEET 19 OF 19

113

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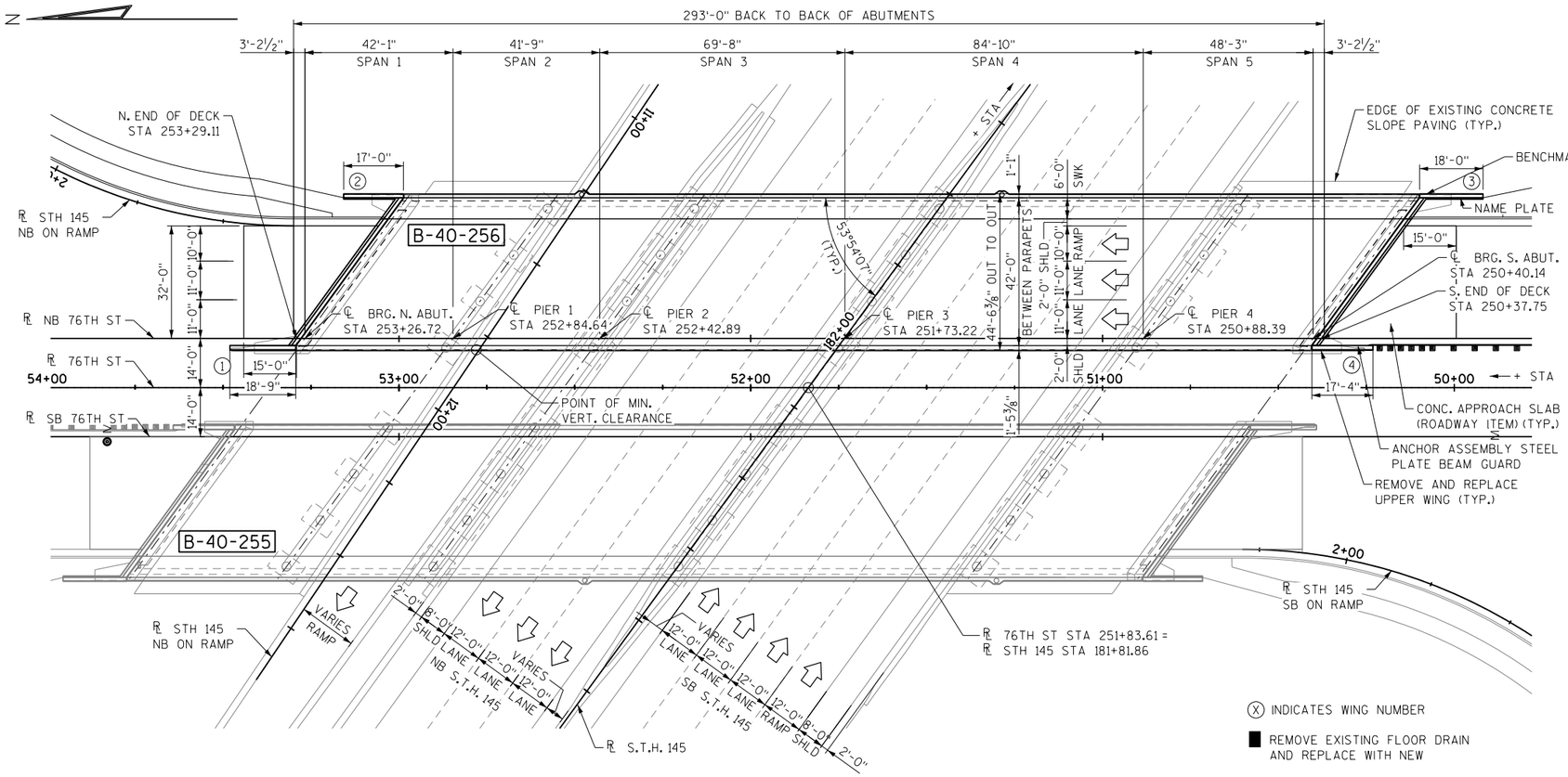
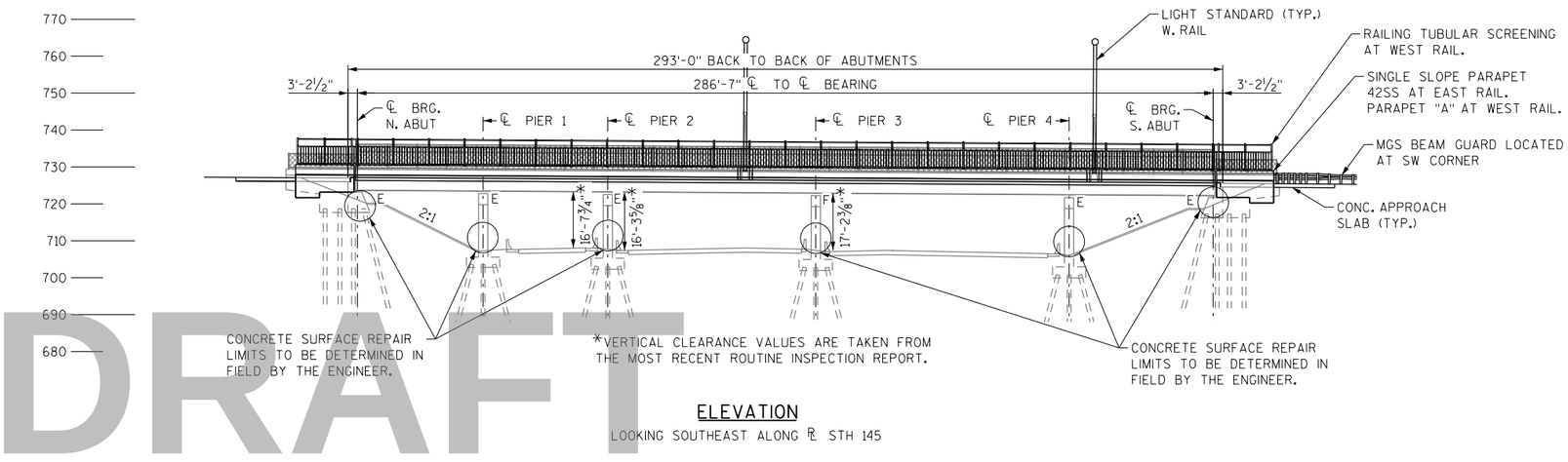
STATE PROJECT NUMBER
1360-13-70



PLAN

(5 SPAN - STEEL GIRDERS)
DECK REPLACEMENT, POLYMER OVERLAY, AND REPAINTING



ELEVATION

LOOKING SOUTHEAST ALONG ℄ STH 145

DRAFT

DESIGN DATA

LIVE LOAD:
DESIGN LOADING HS20
INVENTORY RATING HSXX
OPERATING RATING HSXX
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV) = 250 KIPS
DESIGN ACCOUNTS FOR FUTURE WEARING SURFACE = 20 PSF

MATERIAL PROPERTIES:
CONCRETE MASONRY:
SUBSTRUCTURE ..... f'c = 3,500 psi
SUPERSTRUCTURE ..... f'c = 4,000 psi
BAR STEEL REINFORCEMENT ..... fy = 60,000 psi

EXISTING STRUCTURE

THE EXISTING BRIDGE (B-40-256) IS A 293'-0" LONG, 44'-8" WIDE 5 SPAN STEEL GIRDER BRIDGE SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. THE STRUCTURE BEGINS AT STA 50+37.75 AND ENDS AT STA 53+29.11. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REVIEW AT WISDOT SE REGION OFFICE, 141 NW BARSTOW ST. WAUKESHA, WI OR THROUGH THE WISDOT STRUCTURES WEBSITE.

BENCHMARKS

NAME	DESCRIPTION	ELEV	STA	OFFSET
523	CP F1000SPK BERNSTEN FENO WIT ALUMINIM CAP	719.07	285+21.65	404.59' RT
524	CP F1000SPK BERNSTEN FENO WIT ALUMINIM CAP	726.09	278+51.36	432.63' LT

TRAFFIC DATA

STH 181 (76TH ST)
AADT 2022 = 28,800
AADT 2042 = 31,600
DESIGN SPEED = 40 MPH.

STH 145
AADT 2016 = XX,XXX
AADT 2023 = XX,XXX
DESIGN SPEED = XX MPH.

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK, PE
(608) 261-0261

CONSULTANT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST, SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. TYPICAL SECTIONS, QUANTITIES & GENERAL NOTES
3. STAGING PLAN & TYP DETAILS
4. SUBSTRUCTURE REMOVALS
5. NORTH ABUTMENT MODIFICATIONS
6. NORTH ABUTMENT WINGWALL MODIFICATIONS
7. SOUTH ABUTMENT MODIFICATIONS
8. SOUTH ABUTMENT WINGWALL MODIFICATIONS
9. BEARING DETAILS
10. DECK ELEVATIONS
11. SUPERSTRUCTURE REINFORCEMENT
12. SUPERSTRUCTURE DETAILS
13. SINGLE SLOPE PARAPET 42SS
14. VERTICAL FACE PARAPET "A"
15. TUBULAR STEEL RAILING SCREENING
16. STRIP SEAL EXPANSION JOINT
17. COVER PLATE DETAILS
18. LIGHT SUPPORT DETAILS
19. CONDUIT DETAILS

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-256

STH 181 NB (N 76TH ST) OVER STH 145

COUNTY	MILWAUKEE	~~TOWN~~/CITY/~~VILLAGE~~	MILWAUKEE
DESIGN SPEC.	REHABILITATION N/A		
DESIGNED BY JAP	DESIGN CK'D. WJZ	DRAWN BY JAP	PLANS CK'D. WJZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 19
114

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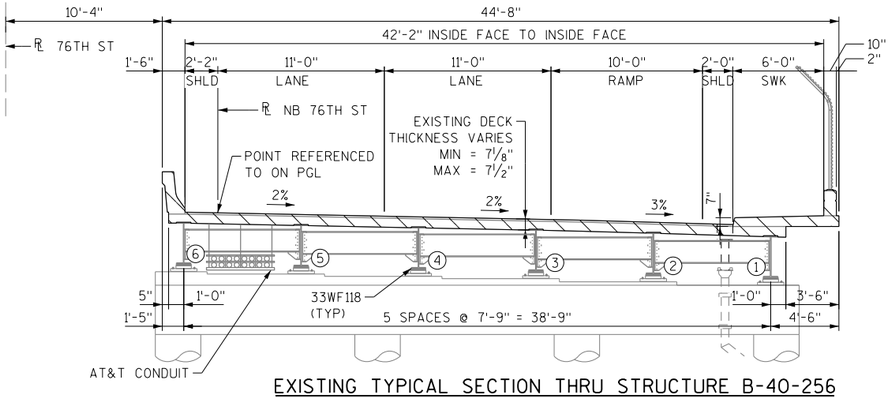
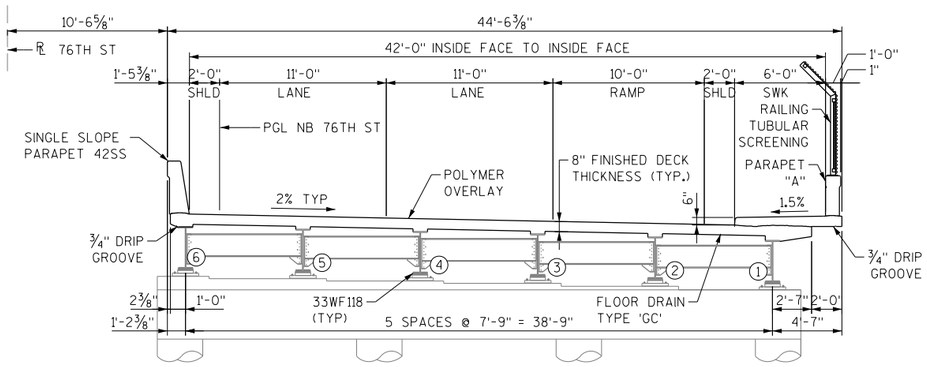
STATE PROJECT NUMBER
1360-13-70



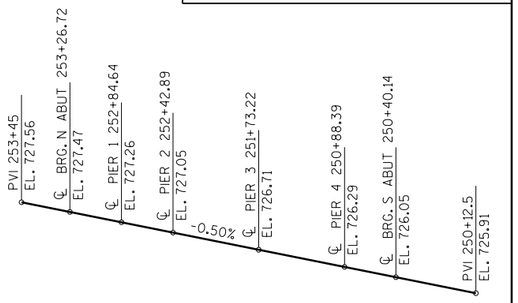
EXISTING TYPICAL SECTION THRU STRUCTURE B-40-256

(LOOKING NORTH)



FINISHED TYPICAL SECTION THRU STRUCTURE B-40-256

(LOOKING NORTH)



PROFILE GRADE LINE 76TH ST

GENERAL NOTES

1. DRAWINGS SHALL NOT BE SCALED.
2. EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
3. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
4. THE TOP LAYER OF BAR STEEL REINFORCEMENT IN THE DECK SHALL BE PLACED WITH 21#2" OF CONCRETE COVER.
5. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
6. PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND TOP OF THE PARAPETS.
7. BEVEL EXPOSED EDGES OF CONCRETE 3#4" UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
9. ALL STATIONS AND ELEVATIONS ARE IN FEET.
10. THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE DECK REPLACEMENT DETAILS.
11. THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.
12. UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.
13. CONCRETE INSERTS TO BE FURNISHED BY THE UTILITY COMPANY AND PLACED BY THE CONTRACTOR. COST OF PLACING INSERTS SHALL BE INCLUDED IN THE BID PRICE FOR CONCRETE MASONRY.
14. THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR, 1964.
15. EXISTING FLOOR DRAIN REMOVAL IS INCLUDED IN THE COST OF BID ITEM "REMOVING OLD STRUCTURE STA 50+58".
16. VARIATIONS TO THE NEW GRADE LINE OVER 1#4" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.
17. THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-255" SHALL BE THE EXISTING GROUNDLINE.
18. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
19. APPLY PROTECTIVE SURFACE TREATMENT TO THE DECK AND SIDEWALK ON THE BRIDGE.
20. ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.
21. AT ABUTMENTS ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.
22. THE COLOR OF THE FINISH EPOXY TOP COAT FOR THE GIRDERS AND CONNECTING STRUCTURAL STEEL SHALL BE BLUE (AMS COLOR NO. 25240).
23. SHOT BLASTING, DECK SURFACE PREPARATIONS, AND TRANSITIONAL AREAS ARE INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
24. REMOVE DRAIN POURS AT PIERS 2 AND 4, INCLUDED IN BID NO. 203.0200.

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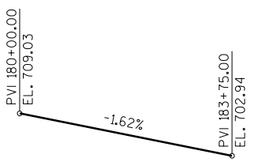
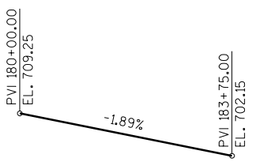
TOTAL ESTIMATE OF QUANTITIES

ITEM NO.	BID ITEMS	UNIT	S ABUT	PIER 1	PIER 2	PIER 3	PIER 4	N ABUT	SUPER	TOTAL
203.0200	REMOVING OLD STRUCTURE STA 250+38	LS	-	-	-	-	-	-	-	-
203.0225.S	DEBRIS CONTAINMENT B-40-256	LS	-	-	-	-	-	-	-	-
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-256	LS	-	-	-	-	-	-	-	-
210.1500	BACKFILL STRUCTURE TYPE A	TON	-	-	-	-	-	-	-	-
502.0100	CONCRETE MASONRY BRIDGES	CY	-	-	-	-	-	-	-	-
502.3101	EXPANSION DEVICE	LF	-	-	-	-	-	-	-	-
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	-	-	-	-	-	-
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	-	-	-	-	-	-	-	-
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-	-	-	-	-	-	-	-
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	-	-	-	-	-	-
509.5100.S	POLYMER OVERLAY	SY	-	-	-	-	-	-	-	-
513.4091	RAIILING TUBULAR SCREENING	LF	-	-	-	-	-	-	-	-
514.0445	FLOOR DRAINS TYPE GC	EACH	-	-	-	-	-	-	-	-
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-	-	-	-	-	-	-	-
517.0600	PAINTING EPOXY SYSTEM B-40-256	LS	-	-	-	-	-	-	-	-
517.0900.S	PREPARATION AND COATING OF TOP FLANGES B-40-256	LS	-	-	-	-	-	-	-	-
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-40-256	LS	-	-	-	-	-	-	-	-
517.4500.S	NEGATIVE PRESSURE CONTAININMENT AND COLLECTION OF WASTE MATERIALS B-40-256	LS	-	-	-	-	-	-	-	-
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	-	-	-	-	-	-	-	-
531.8990	ANCHOR ASSEMBLIES POLES ON STRUCTURES	LF	-	-	-	-	-	-	-	-
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	EACH	-	-	-	-	-	-	-	-
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	LF	-	-	-	-	-	-	-	-
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	-	-	-	-	-	-	-	-
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	EACH	-	-	-	-	-	-	-	-
653.0220	JUNCTION BOXES 18X6X6-INCH	EACH	-	-	-	-	-	-	-	-
653.0222	JUNCTION BOXES 18X12X6-INCH	EACH	-	-	-	-	-	-	-	-
657.6005	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	-	-	-	-	-	-	-	-
SPV.0060.XX	CLEANING PAINTING AND LUBRICATING BEARINGS	EACH	-	-	-	-	-	-	-	-
	NON-BID ITEMS									
	PREFORMED JOINT FILLER - ½", ¾"									
	NON-BITUMINOUS JOINT SEALER									
	NAME PLATE									



PROFILE GRADE LINE
STH 145 NB



PROFILE GRADE LINE
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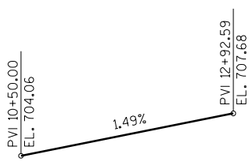

PROFILE GRADE LINE
STH 145 NB ON RAMP

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

TYPICAL SECTIONS, QUANTITIES & GENERAL NOTES

SHEET 2 OF 19

115

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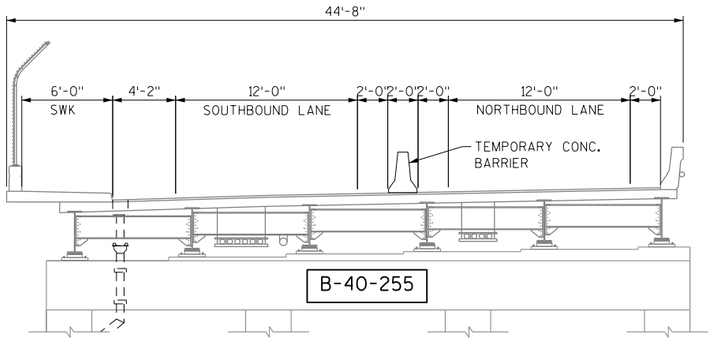
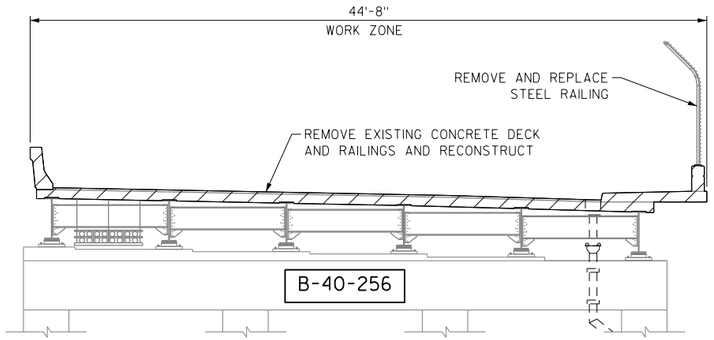
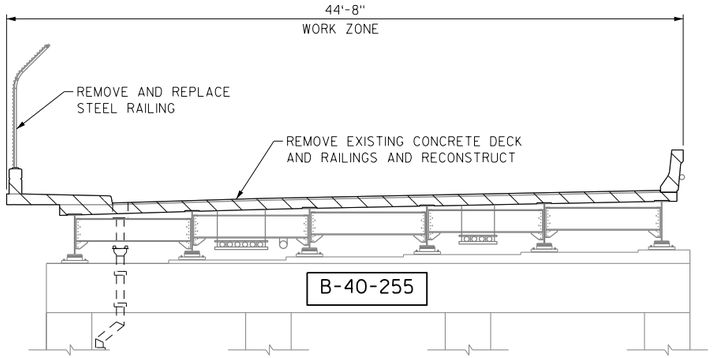
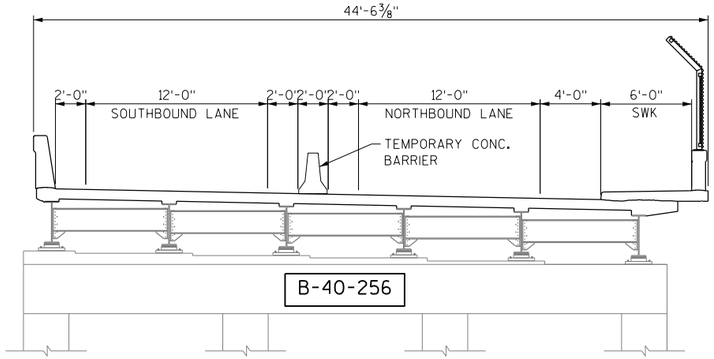
STATE PROJECT NUMBER
1360-13-70



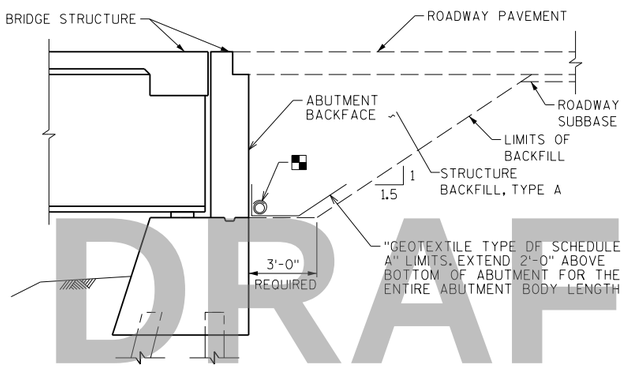


STAGE 1: SECTION
(LOOKING NORTH)





STAGE 2: SECTION
(LOOKING NORTH)



DRAFT

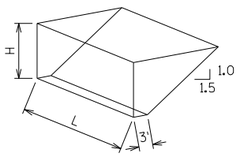
ABUTMENT BACKFILL

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-40-255" SHALL BE THE EXISTING GROUNDLINE

BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY CONTRACTOR.

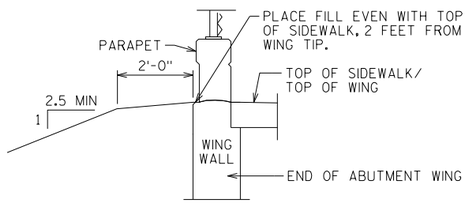
AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOTBE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

■ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN TO SUITABLE DRAINAGE. ATTACH ROADENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



ABUTMENT BACKFILL DIAGRAM
FOR WINGS PARALLEL TO ROADWAY

L = OUT TO OUT OF ABUTMENT, INCLUDING WINGS (FT)
H = AVERAGE ABUTMENT FILL HEIGHT (FT)
EF = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
V_{CY} = V_{CF} (EF)/27
V_{TON} = V_{CY} (2.0)



TYPICAL FILL SECTION AT WING TIPS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

STAGING PLAN & TYP DETAILS

SHEET 3 OF 19

116

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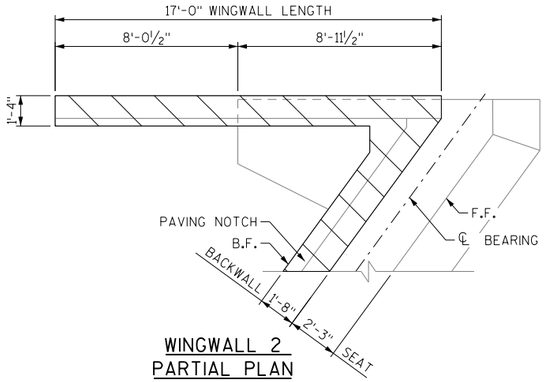
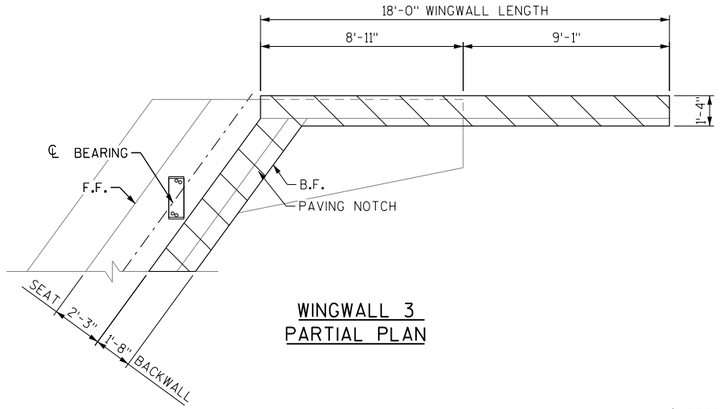
STATE PROJECT NUMBER

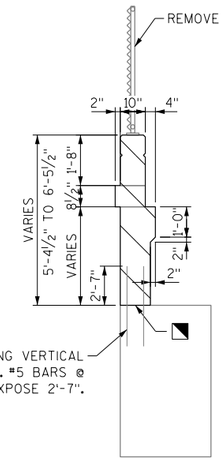
1360-13-70



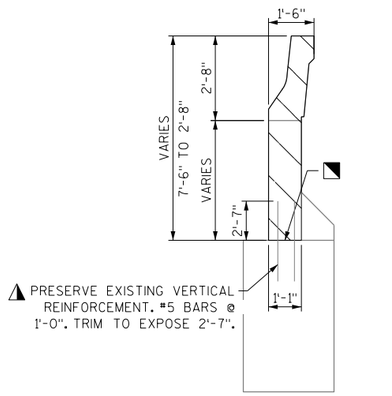
WINGWALL 2
PARTIAL PLAN



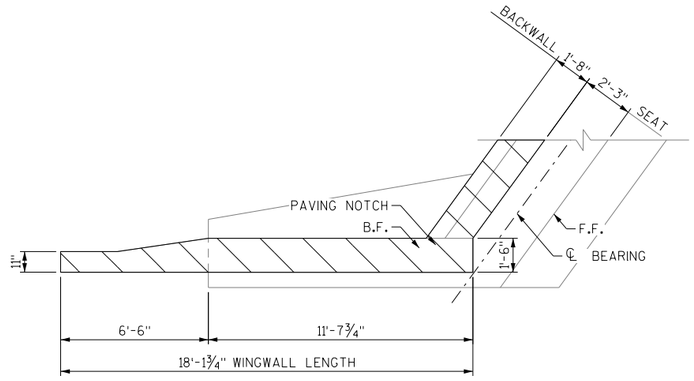
WINGWALL 3
PARTIAL PLAN



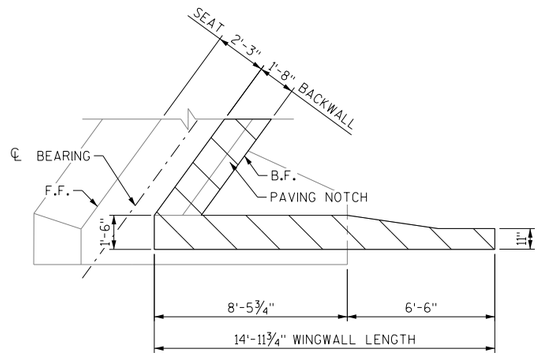
SECTION THROUGH
WINGWALLS 2 & 3



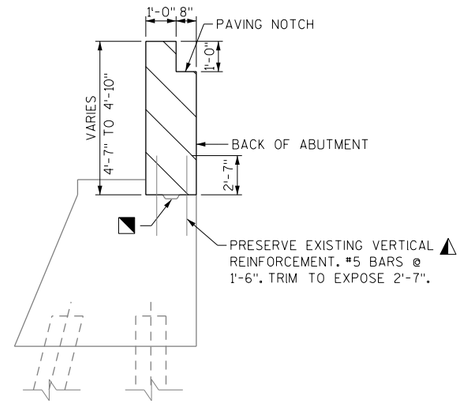
SECTION THROUGH
WINGWALLS 1 & 4



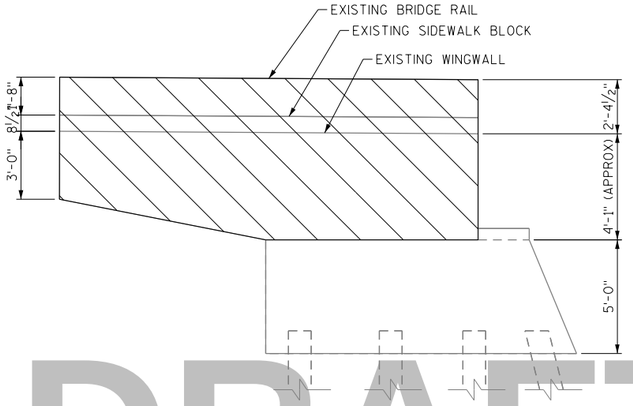
WINGWALL 1
PARTIAL PLAN



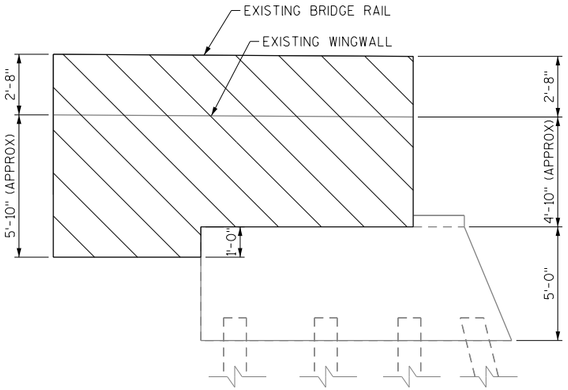
WINGWALL 4
PARTIAL PLAN



SECTION THROUGH
ABUTMENT



WINGWALL 3 ELEVATION
(WINGWALL 2 IS SIMILAR)



WINGWALL 1 ELEVATION
(WINGWALL 4 IS SIMILAR)

DRAFT

LEGEND

PREPARE CONCRETE SURFACE ACCORDING TO SECTION 509.3.7 OF THE STANDARD SPECIFICATIONS. COST IS INCLUDED IN THE COST OF THE BID ITEM "REMOVING OLD STRUCTURE STA 50+58"

CLEAN, STRAIGHTEN, AND INCORPORATE INTO NEW WORK. DO NOT CUT. REPLACE DAMAGED OR CORRODED REINFORCEMENT AS DIRECTED BY THE ENGINEER.

HATCHED AREAS INDICATE CONCRETE REMOVALS

F.F. - FRONT FACE

B.F. - BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

SUBSTRUCTURE REMOVALS

SHEET 4 OF 19

117

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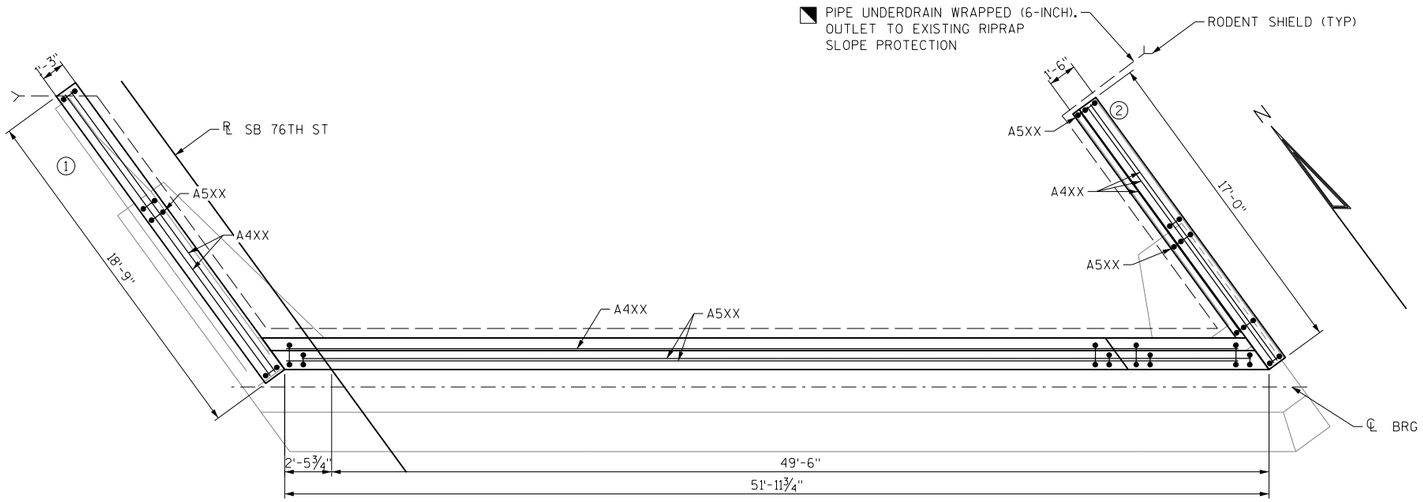
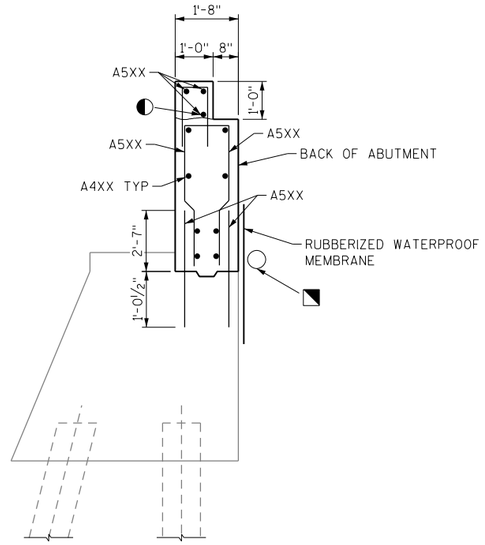
STATE PROJECT NUMBER

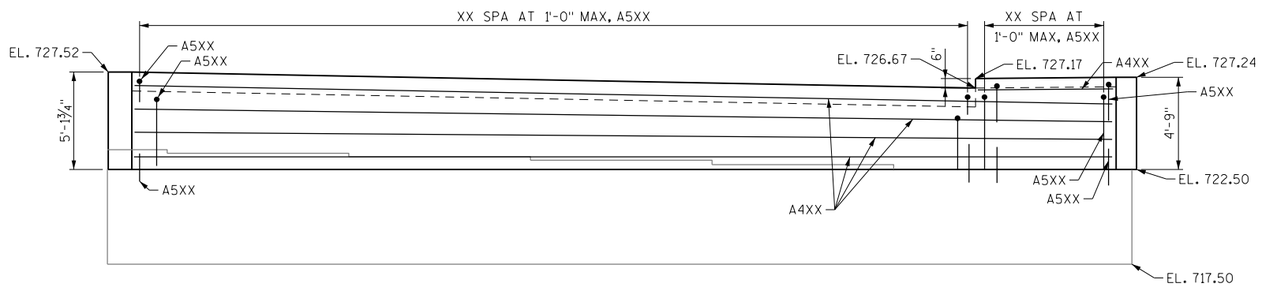
1360-13-70



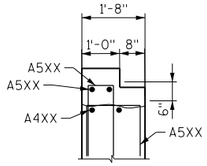
NORTH ABUTMENT PLAN



TYPICAL ABUTMENT SECTION



NORTH ABUTMENT ELEVATION



SECTION AT SIDEWALK NOTCH

LEGEND:
FF - FRONT FACE
BF - BACK FACE

PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT END OF PIPE UNDERDRAIN.

CONSTRUCTION JOINT
STRIKE OFF AND LEAVE ROUGH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

NORTH ABUTMENT MODIFICATIONS

SHEET 5 OF 19

118

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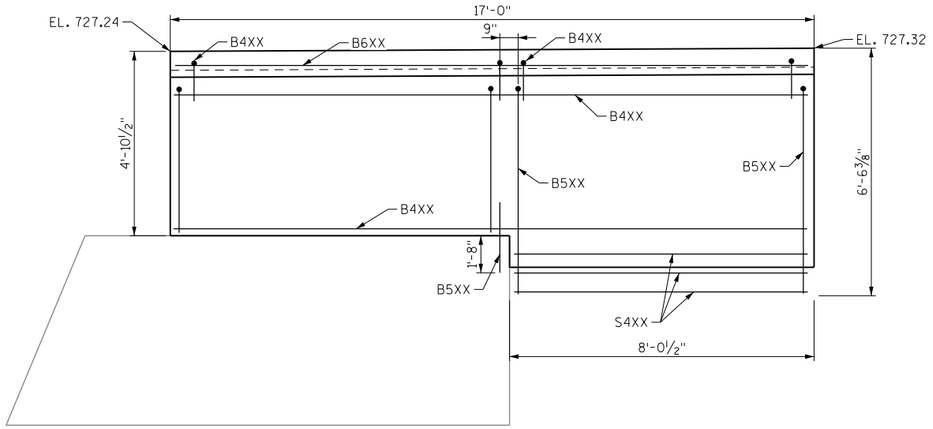
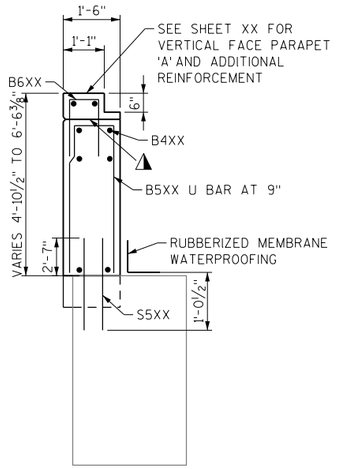
DRAFT

STATE PROJECT NUMBER

1360-13-70



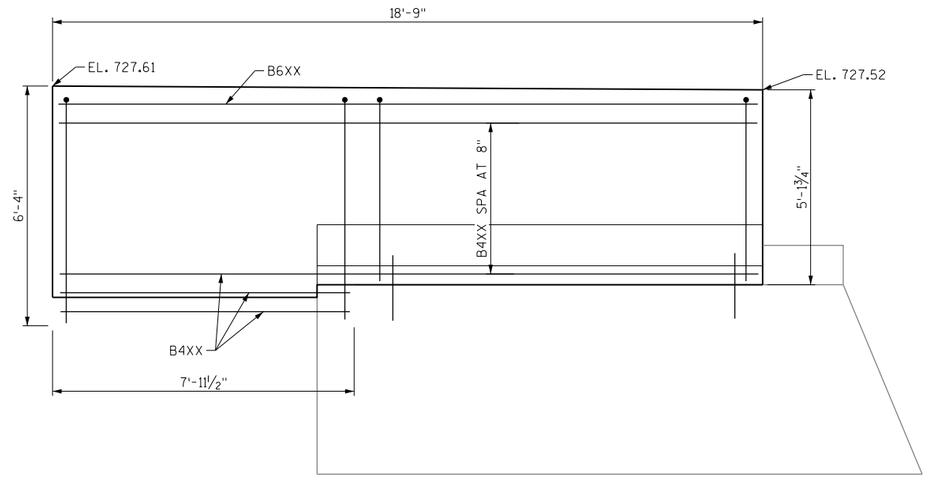
WINGWALL 2 ELEVATION



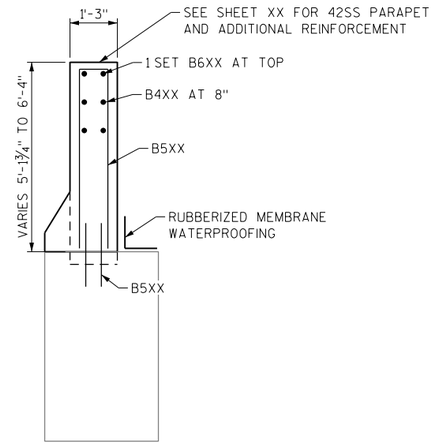
WINGWALL 2 SECTION

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D NORTH ABUT.	NO. REQ'D SOUTH ABUT.	LENGTH	BENT BAR	BUNDLED	BAR SERIES ◭	-- # COATED -- # UNCOATED LOCATION
--	-	-	-	-	-			-



WINGWALL 1 ELEVATION



WINGWALL 1 SECTION

LEGEND:

◭ OPTIONAL CONSTRUCITON JOINT. IF JOINT IS USED, UTILIZE RUBBERIZED MEMBRANE WATERPROOFING (COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

FF - FRONT FACE
BF - BACK FACE

STRUCTURE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

NORTH ABUTMENT WINGWALL MODIFICATIONS

SHEET 6 OF 19

119

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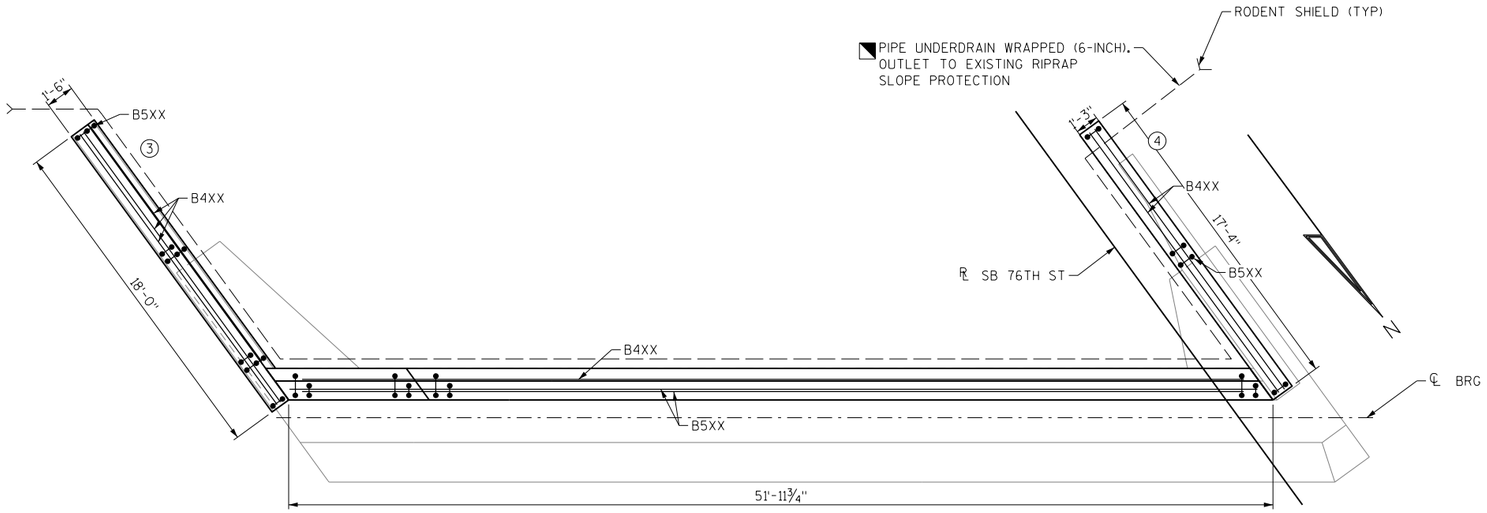
8

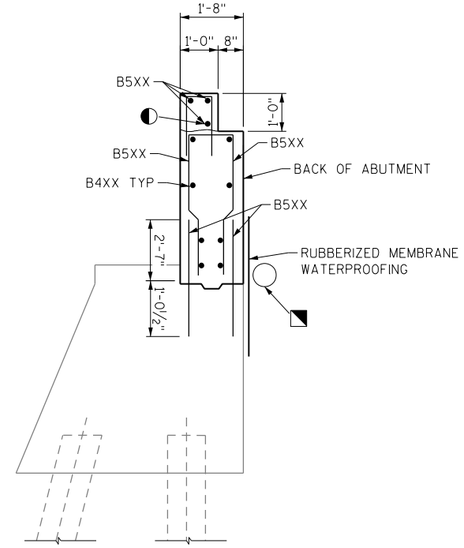
DRAFT

STATE PROJECT NUMBER

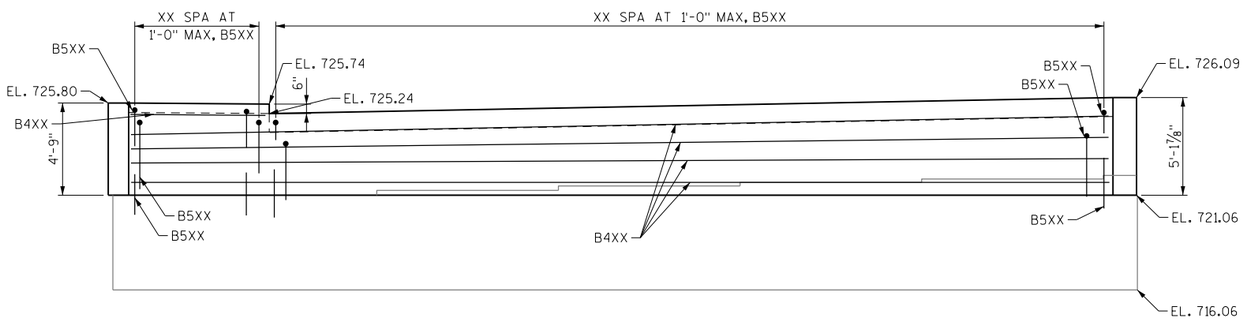
1360-13-70



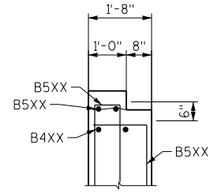
SOUTH ABUTMENT PLAN



TYPICAL ABUTMENT SECTION



SOUTH ABUTMENT ELEVATION



SECTION AT SIDEWALK NOTCH

LEGEND:
FF - FRONT FACE
BF - BACK FACE

PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT END OF PIPE UNDERDRAIN.

CONSTRUCITON JOINT
STRIKE OFF AND LEAVE ROUGH

8

8

DRAFT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

SOUTH ABUTMENT MODIFICATIONS

SHEET 7 OF 19

120

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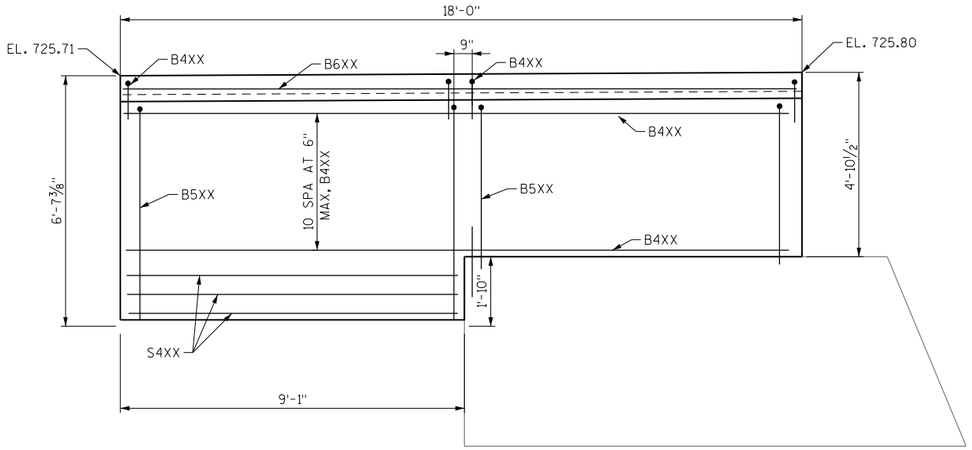
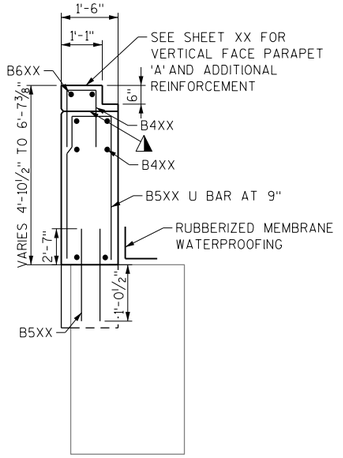
STATE PROJECT NUMBER

1360-13-70



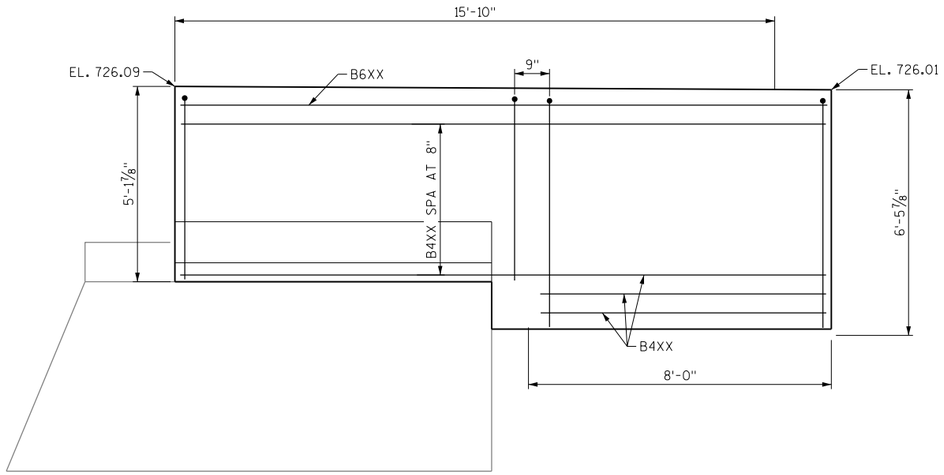
WINGWALL 3 ELEVATION



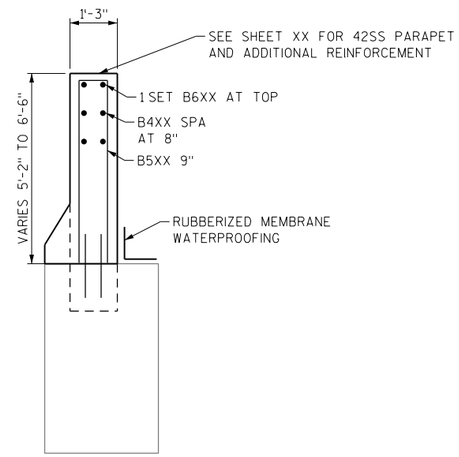
WINGWALL 3 SECTION

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D NORTH ABUT.	NO. REQ'D SOUTH ABUT.	LENGTH	BENT BAR	BUNDLED	BAR SERIES ⚠	-- # COATED -- # UNCOATED LOCATION
--	-	-	-	-	-			-



WINGWALL 4 ELEVATION



WINGWALL 4 SECTION

LEGEND:
FF - FRONT FACE
BF - BACK FACE

⚠ OPTIONAL CONSTRUCITON JOINT. IF JOINT IS USED, UTILIZE RUBBERIZED MEMBRANE WATERPROOFING (COST INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

DRAFT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

SHEET 8 OF 19

121

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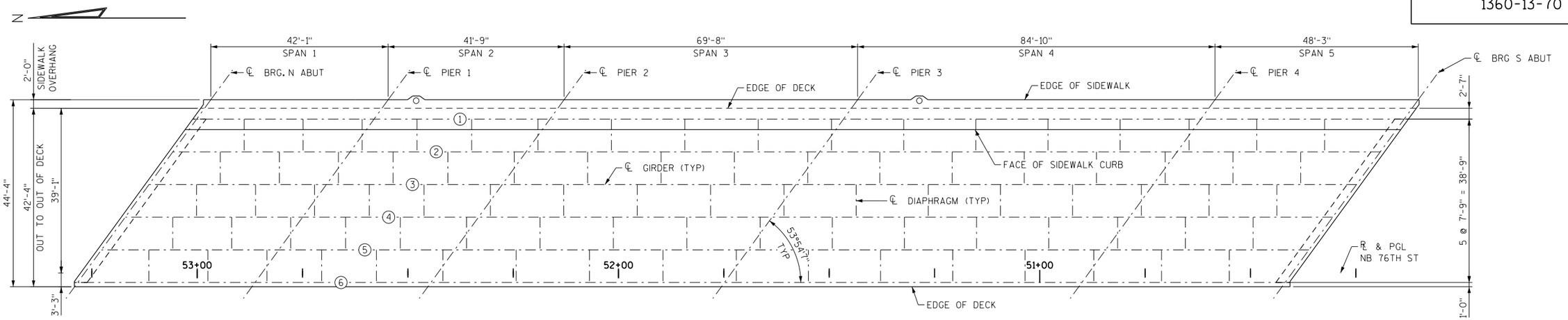
STATE PROJECT NUMBER
1360-13-70



EXISTING GIRDER FRAMING PLAN

(FIELD SPLICES AND COVER PLATES NOT SHOWN)

FINISHED TOP OF DECK ELEVATIONS

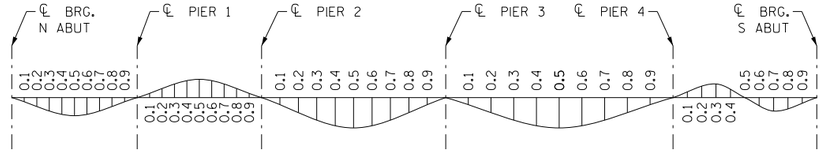
*THIS POINT IS A CONTUATION OF THE DECK CROSS SLOPE.

	LOCATION	EAST EDGE OF DECK	EAST FACE OF PARAPET	GIRDER 7	PGL SB 76TH ST	GIRDER 8	GIRDER 9	GIRDER 10	GIRDER 11	WEST FACE OF CURB	GIRDER 12	WEST EDGE* OF DECK
	℄ N ABUT											
SPAN 1	0.1											
SPAN 1	0.2											
SPAN 1	0.3											
SPAN 1	0.4											
SPAN 1	0.5											
SPAN 1	0.6											
SPAN 1	0.7											
SPAN 1	0.8											
SPAN 1	0.9											
	℄ PIER 1											
SPAN 1	0.1											
SPAN 1	0.2											
SPAN 1	0.3											
SPAN 1	0.4											
SPAN 1	0.5											
SPAN 1	0.6											
SPAN 1	0.7											
SPAN 1	0.8											
SPAN 1	0.9											
	℄ PIER 2											
SPAN 1	0.1											
SPAN 1	0.2											
SPAN 1	0.3											
SPAN 1	0.4											
SPAN 1	0.5											
SPAN 1	0.6											
SPAN 1	0.7											
SPAN 1	0.8											
SPAN 1	0.9											
	℄ PIER 3											
SPAN 1	0.1											
SPAN 1	0.2											
SPAN 1	0.3											
SPAN 1	0.4											
SPAN 1	0.5											
SPAN 1	0.6											
SPAN 1	0.7											
SPAN 1	0.8											
SPAN 1	0.9											
	℄ PIER 4											
SPAN 1	0.1											
SPAN 1	0.2											
SPAN 1	0.3											
SPAN 1	0.4											
SPAN 1	0.5											
SPAN 1	0.6											
SPAN 1	0.7											
SPAN 1	0.8											
SPAN 1	0.9											
	℄ S ABUT											

DRAFT

DEAD LOAD DEFLECTIONS ◥

	LOCATION	GIRDER 7	GIRDER 8-11	GIRDER 12
	℄ N ABUT			
SPAN 1	0.1			
SPAN 1	0.2			
SPAN 1	0.3			
SPAN 1	0.4			
SPAN 1	0.5			
SPAN 1	0.6			
SPAN 1	0.7			
SPAN 1	0.8			
SPAN 1	0.9			
	℄ PIER 1			
SPAN 1	0.1			
SPAN 1	0.2			
SPAN 1	0.3			
SPAN 1	0.4			
SPAN 1	0.5			
SPAN 1	0.6			
SPAN 1	0.7			
SPAN 1	0.8			
SPAN 1	0.9			
	℄ PIER 2			
SPAN 1	0.1			
SPAN 1	0.2			
SPAN 1	0.3			
SPAN 1	0.4			
SPAN 1	0.5			
SPAN 1	0.6			
SPAN 1	0.7			
SPAN 1	0.8			
SPAN 1	0.9			
	℄ PIER 3			
SPAN 1	0.1			
SPAN 1	0.2			
SPAN 1	0.3			
SPAN 1	0.4			
SPAN 1	0.5			
SPAN 1	0.6			
SPAN 1	0.7			
SPAN 1	0.8			
SPAN 1	0.9			
	℄ PIER 4			
SPAN 1	0.1			
SPAN 1	0.2			
SPAN 1	0.3			
SPAN 1	0.4			
SPAN 1	0.5			
SPAN 1	0.6			
SPAN 1	0.7			
SPAN 1	0.8			
SPAN 1	0.9			
	℄ S ABUT			



DEFLECTION DIAGRAM

◥ DEFLECTIONS ARE GIVEN IN INCHES
NEGATIVE DEFLECTION INDICATES UPWARD DEFLECTION
DEFLECTIONS ARE THEORETICAL AND MAY VARY IN THE FIELD.

NOTES

A 1¼" MINIMUM HAUNCH IS REQUIRED AT THE EDGE OF GIRDER. IF A 1¼" MINIMUM HAUNCH HEIGHT CANNOT BE MAINTAINED THE GRADE LINE MAY BE REVISED BY THE ENGINEER IN THE FIELD AT THE OPTION OF THE CONTRACTOR. THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN AND PROFILE BY MORE THAN ½"

THE FOLLOWING AVERAGE HAUNCH DEPTHS ('T') WERE USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

GIRDER X: X.X"
GIRDER X: X.X"
GIRDER X: X.X"
GIRDER X: X.X"

'T' = HAUNCH HEIGHT AT ℄ GIRDER

TO DERTERMINE 'T': AFTER EXISTING DECK HAS BEEN REMOVED, AND ABUTMENT BEARINGS HAVE BEEN REPLACED, ELEVATIONS OF THE TOP FLANGES SHALL BE TAKEN AT CENTERLINES OF BEARING AND AT 0.1 POINTS.

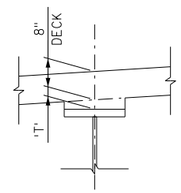
TOP OF DECK ELEVATION AT FINAL GRADE

\- TOP OF STEEL ELEVATION AFTER EXISTING DECK HAS BEEN REMOVED

\+ DEAD LOAD DEFLECTION (DOWNWARD DEFLECTION IS ADDED, UPWARD DEFLECTION IS SUBTRACTED)

\- DECK THICKNESS

= 'T' VALUE FOR SETTING HAUNCH



SLAB HAUNCH DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

GIRDER & SUPERSTRUCTURE DETAILS

SHEET 10 OF 19

122

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SCALE = 1:25

8

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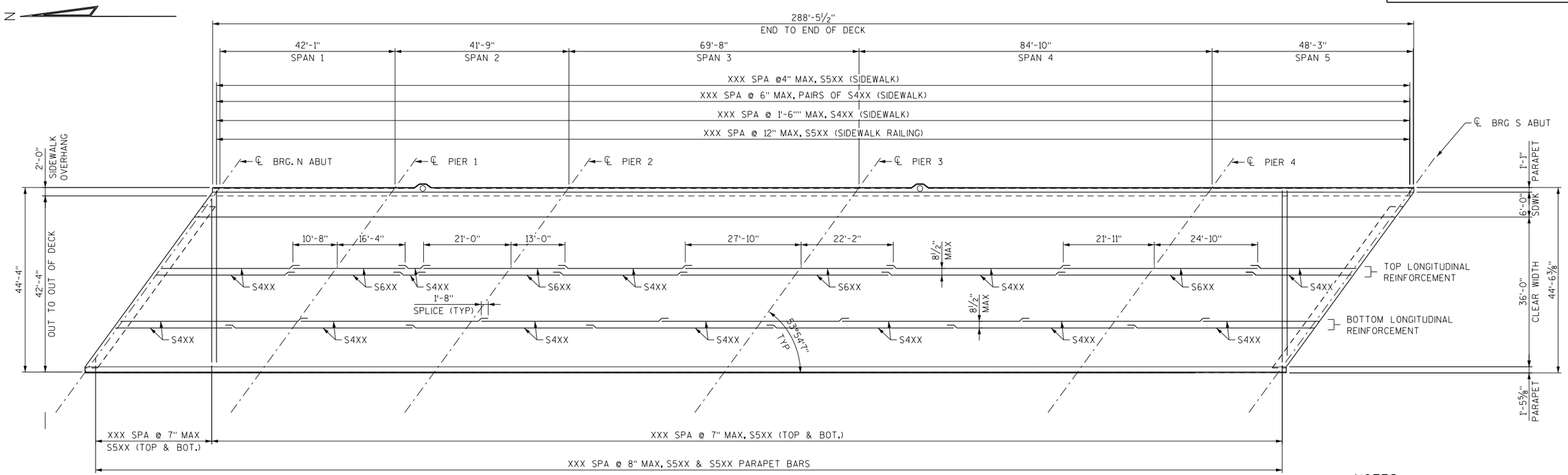
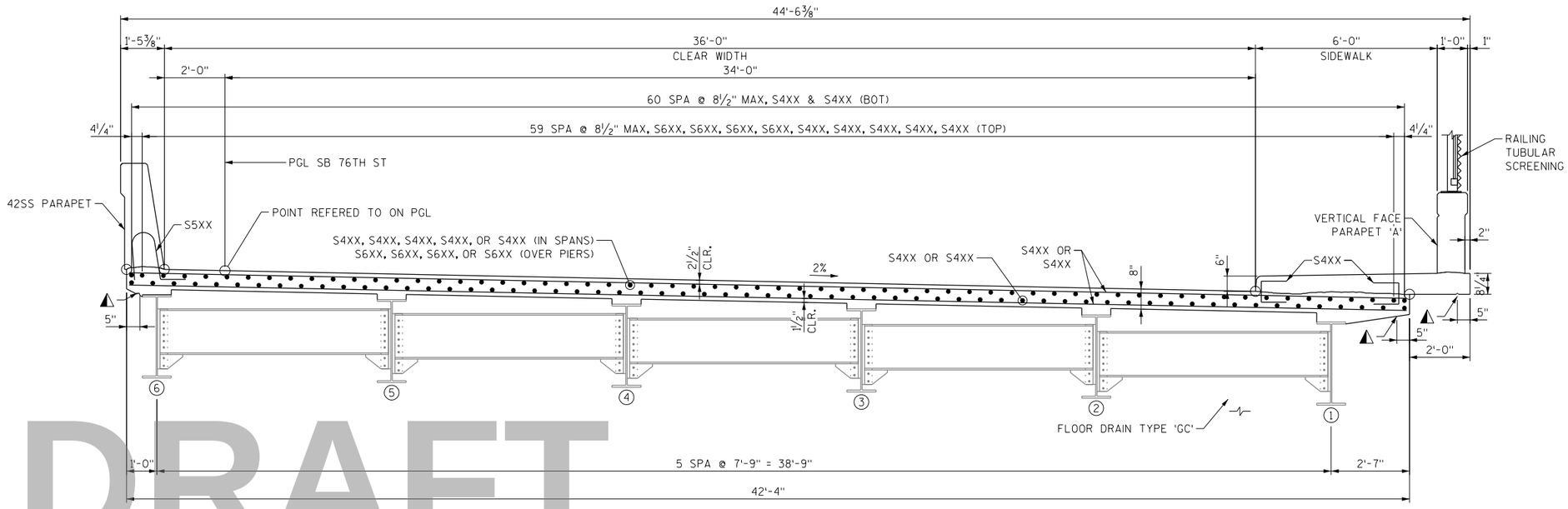
STATE PROJECT NUMBER

1360-13-70



FRAMING PLAN



TYPICAL SECTION THRU DECK
(LOOKING NORTH)

DRAFT

NOTES:

SEE SHEET XX FOR SUPERSTRUCTURE BILL OF BARS AND DECK DETAILS

SEE SHEET XX FOR TOP OF DECK ELEVATIONS

SEE SHEET XX FOR 42SS PARAPET DETAILS

SEE SHEET XX FOR VERTICAL FACE PARAPET 'A' DETAILS

SEE SHEET XX FOR RAILING TUBULAR SCREENING

SEE SHEET XX FOR SIDEWALK DETAILS

SEE SHEET XX FOR FLOOR DRAIN TYPE 'GC'

SEE SHEET XX FOR LIGHT STANDARD DETAIL

○ INDICATES T/SLAB ELEVATION LOCATION

▲ INDICATES ¾" V-GROOVE TO EXTEND TO 2'-0" FROM FRONT FACE OF ABUTMENT BACKWALL.

Ⓧ INDICATES GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

SUPERSTRUCTURE REINFORCEMENT

SHEET 11 OF 19

123

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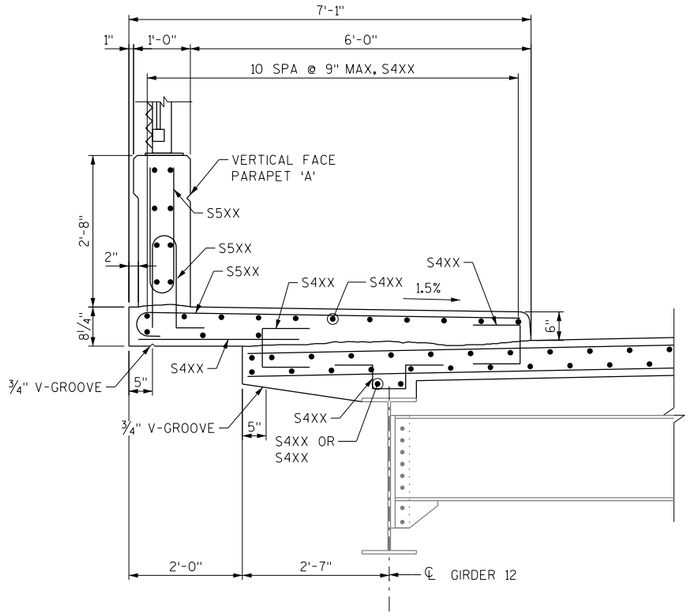
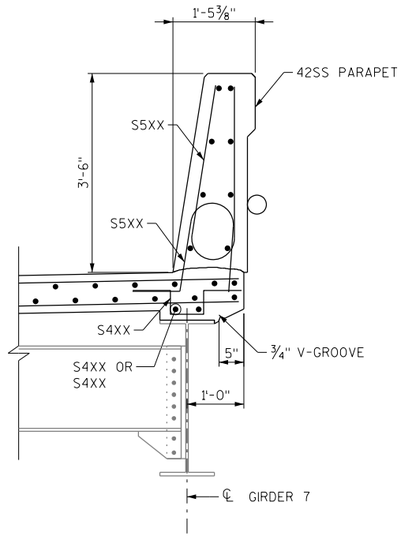
1360-13-70



SECTION THROUGH PARAPET AND SIDEWALK AT EAST OVERHANG



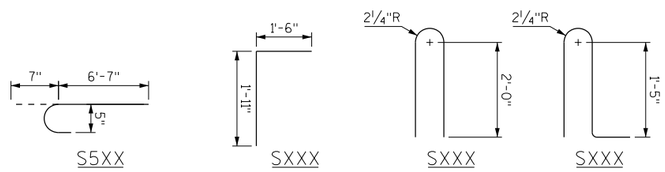
SECTION THROUGH PARAPET AT WEST OVERHANG

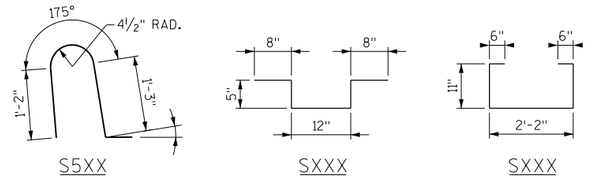
BILL OF BARS - DECK

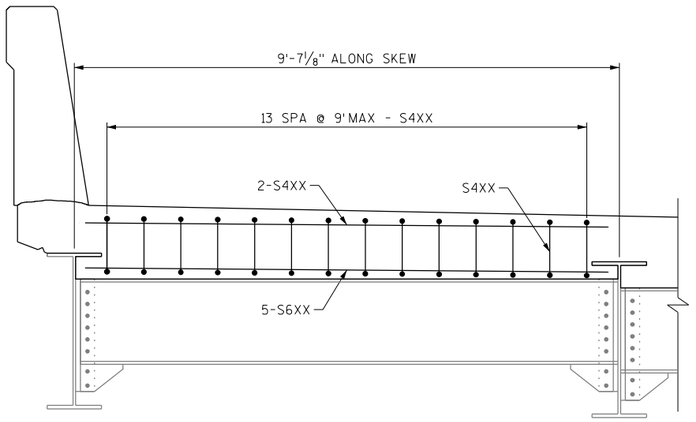
NOT ACCURATE DIRECTLY COPIED FROM ANOTHER PROJECT

BAR NO.	COATED BAR	NO. REQ'D	LENGTH	BENT BAR	BUNDLED	BAR SERIES	-- # COATED -- # UNCOATED LOCATION
S401	X	398	45'-0"				SLAB LONGITUDINAL - TOP & BOTTOM
S402	X	66	29'-0"				SLAB LONGITUDINAL - BOTTOM
S403	X	67	42'-6"				SLAB LONGITUDINAL - TOP
S404	X	67	27'-6"				SLAB LONGITUDINAL - TOP
S905	X	131	49'-0"				SLAB LONGITUDINAL - TOP AT PIER
S406	X	375	36'-1"				SLAB TRANSVERSE - BOTTOM
S407	X	375	16'-3"				SLAB TRANSVERSE - BOTTOM
S408	X	375	32'-9"				SLAB TRANSVERSE - TOP
S409	X	375	19'-7"				SLAB TRANSVERSE - TOP
S510	X	750	4'-7"	X			SLAB TRANSVERSE - TOP AT OVERHANG
S511	X	614	4'-5"	X			PARAPET CONNECTION
S512	X	614	6'-8"	X			PARAPET U-BAR
S513	X	48	60'-0"				PARAPET LONGITUDINAL
S514	X	16	31'-9"				PARAPET LONGITUDINAL
S515	X	92	11'-10"	X			ABUTMENT DIAPHRAGM - LARGE STIRRUP
S516	X	32	10'-0"	X			ABUTMENT DIAPHRAGM - SMALL STIRRUP
S517	X	92	5'-8"	X			ABUTMENT DIAPHRAGM - TOP U-BAR
S418	X	56	3'-6"	X			ABUTMENT DIAPHRAGM - BOTTOM U-BAR
S519	X	32	6'-0"				ABUTMENT DIAPHRAGM - THROUGH GIRDER WEB
S420	X	28	2'-7"				ABUTMENT DIAPHRAGM - LONGITUDINAL AT SEAT
S621	X	84	3'-11"				ABUTMENT DIAPHRAGM - LONGITUDINAL F.F.
S622	X	10	50'-8"				ABUTMENT DIAPHRAGM - LONGITUDINAL B.F.
S623	X	8	6'-4"	X			ABUTMENT DIAPHRAGM - END U-BAR LONG
S624	X	4	4'-4"	X			ABUTMENT DIAPHRAGM - END U-BAR SHORT
S525	X	14	8'-6"	X			PIER DIAPHRAGM - SMALL STIRRUP
S526	X	35	10'-1"	X			PIER DIAPHRAGM - LARGE U-BAR
S427	X	84	3'-7"				PIER DIAPHRAGM - LONDITUDINAL E.F.

THE FIRST DIGIT OR FIRST TWO DIGITS OF A BAR MARK INDICATED THE BAR SIZE
ALL DIMENSIONS IN THE BAR BENDS ARE OUT TO OUT.

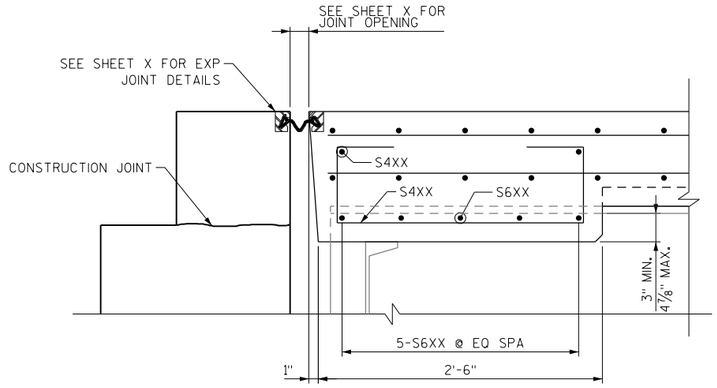






TRANSVERSE SECTION OF TYPICAL END DIAPHRAGM

(SHOWING ADDITIONAL DIAPHRAGM REINFORCEMENT ONLY)
(DIMENSIONS ARE TAKEN NORMAL TO THE ℄ OF THE JOINT)



SECTION THROUGH END DIAPHRAGM AND EXPANSION JOINT

(DIMENSIONS ARE TAKEN NORMAL TO THE ℄ OF THE JOINT)

BAR SERIES TABLE

BAR NO	NUMBER REQUIRED	LENGTH
SXXX	X SERIES OF XX	X'-XX"
SXXX	X SERIES OF XX	X'-XX"
SXXX	X SERIES OF XX	X'-XX"
SXXX	X SERIES OF XX	X'-XX"

DRAFT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

SUPERSTRUCTURE DETAILS

SHEET 12 OF 19

124

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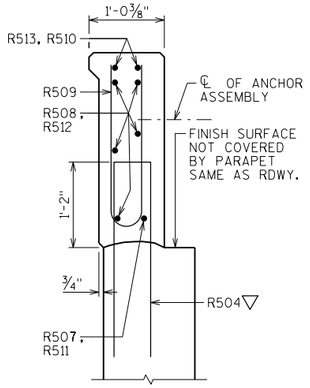
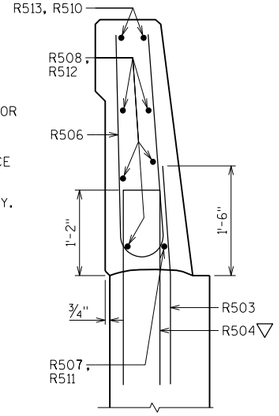
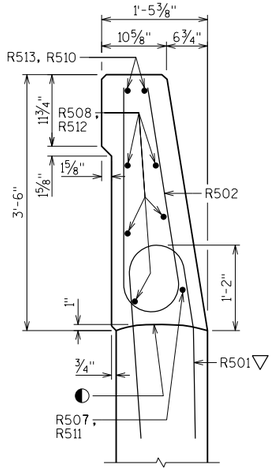
STATE PROJECT NUMBER
1360-13-70



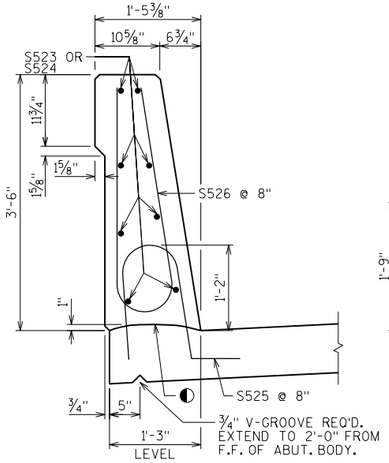
SECTION A-A



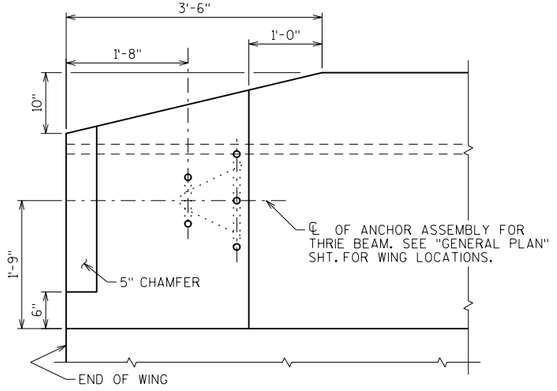
SECTION B-B



SECTION C-C



SECTION THRU PARAPET ON DECK



PARAPET END TREATMENT DETAIL

LOOKING AT INSIDE FACE OF PARAPET

BILL OF BARS

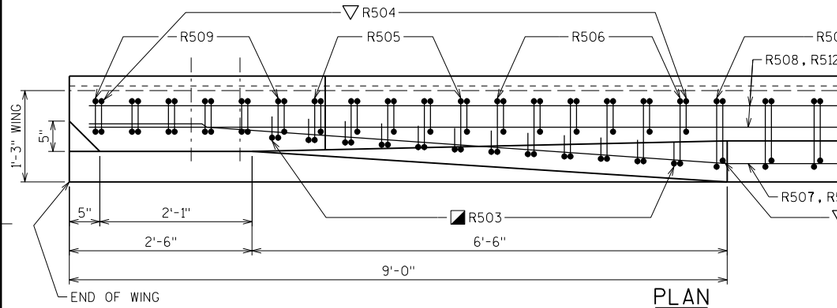
BAR MARK	COAT	NO REQ'D N ABUT.	NO REQ'D S ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	12	14	5'-10	X		PARAPET VERT.
R502	X	12	14	6'-8"	X		PARAPET VERT.
R503	X	11	11	3'-0"	X		PARAPET VERT.
R504	X	17	17	5'-7"	X		PARAPET VERT.
R505	X	5	5	6'-5"	X		PARAPET VERT.
R506	X	6	6	6'-6"	X		PARAPET VERT.
R507	X	1		16'-10"	X		PARAPET HORIZ.
R508	X	5		16'-11			PARAPET HORIZ.
R509	X	6	6	5'-5"	X	⚠	PARAPET VERT.
R510	X	2		16'-10"	X		PARAPET HORIZ.
R511	X		1	15'-5"	X		PARAPET HORIZ.
R512	X		5	15'-6"			PARAPET HORIZ.
R513	X		2	15'-5"	X		PARAPET HORIZ.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

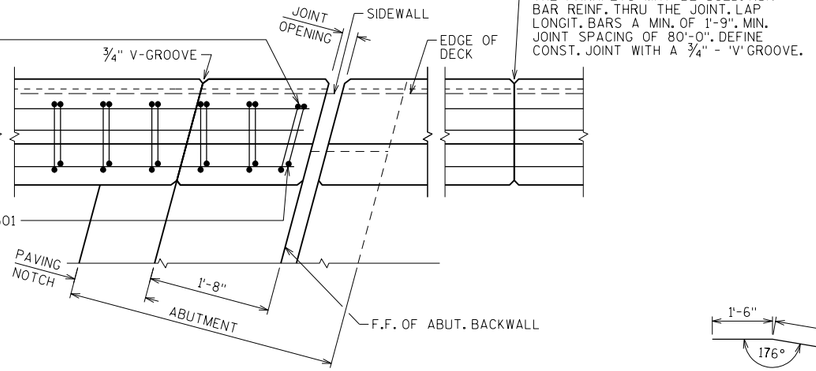
BAR MARK	NO. REQ'D	LENGTH
R509	2 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.

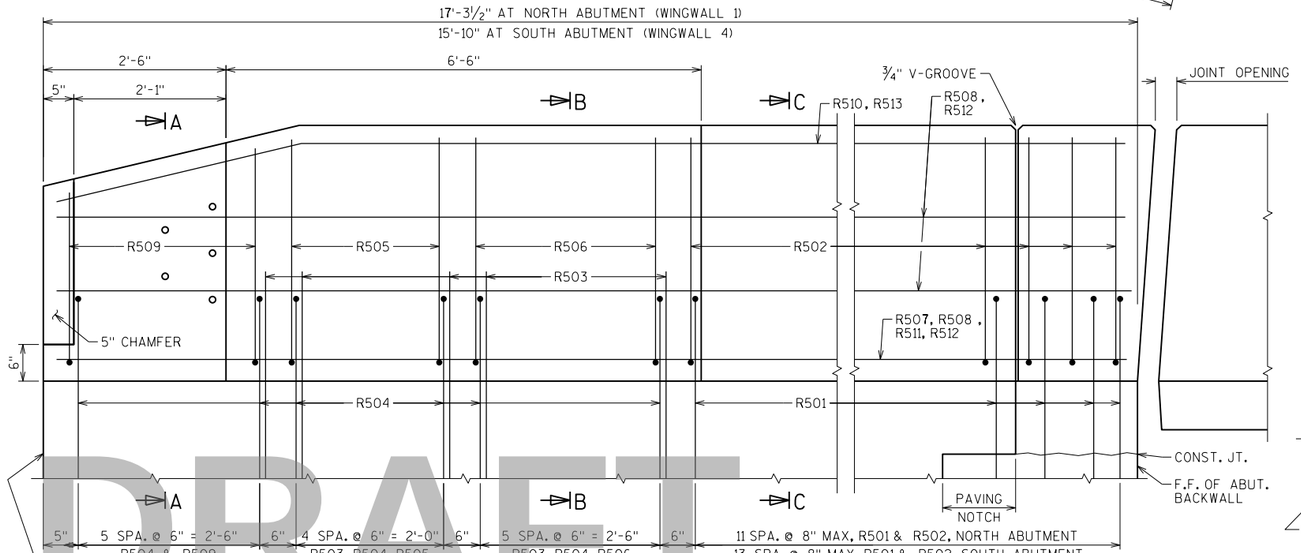


PLAN

SW CORNER SHOWN, NW SIMILAR

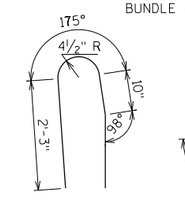


OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A 3/4" - 'V' GROOVE.

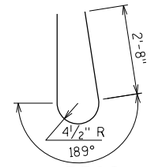


INSIDE ELEVATION

SW CORNER SHOWN, NW SIMILAR



R501



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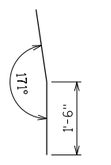
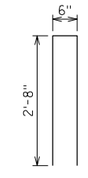
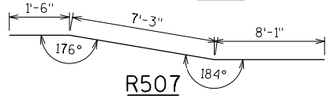


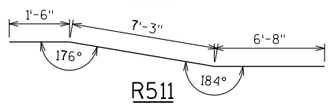
R503



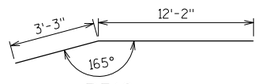
R504



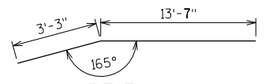
R507



R511



R510



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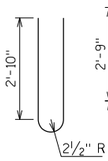

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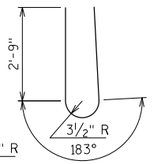
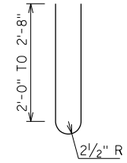


R506

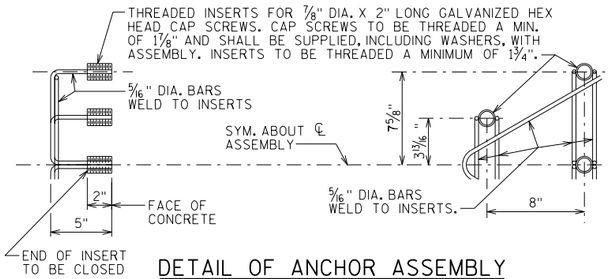


R509

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◪ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

SINGLE SLOPE PARAPET 42SS

SHEET 13 OF 19

125

FILE= B-40-256_130_42SS.DGN
SCALE = 1:1

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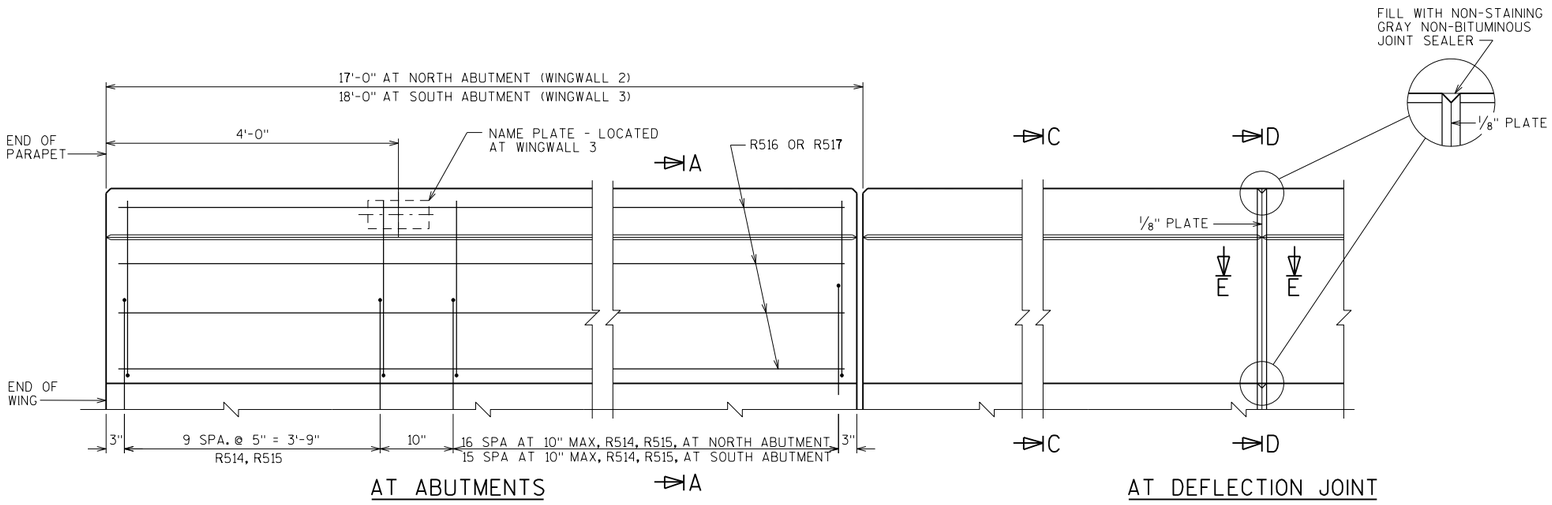
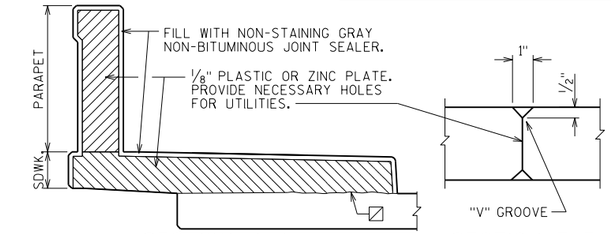
STATE PROJECT NUMBER

1360-13-70



AT ABUTMENTS

AT DEFLECTION JOINT

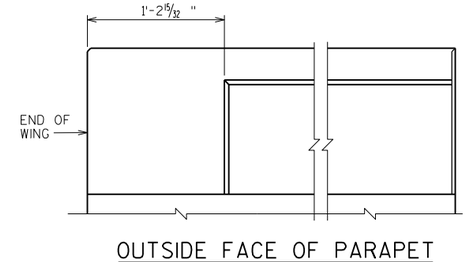


SECTION D-D

SECTION E-E

(SHOWING DEFLECTION JOINT IN PARAPET AND SIDEWALK.)

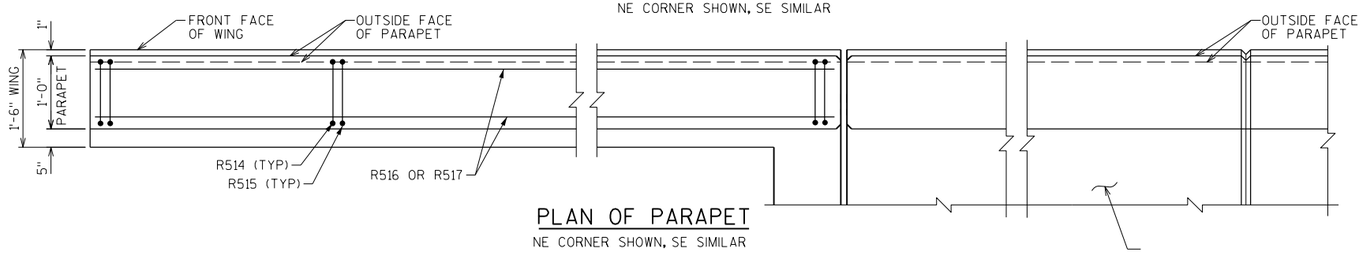
WHEN PARAPETS ARE POURED CONTINUOUSLY FROM END TO END, THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF 1/8" ZINC OR PLASTIC PLATE CUT AS SHOWN IN SECTION B-B BY SHADED AREA. IF CONSTRUCTION JOINTS IN PARAPETS ARE USED AT THE DEFLECTION JOINTS, ONE SIDE OF JOINT SHALL BE COATED WITH AN APPROVED LIQUID BOND BREAKER AND PLATE SEPARATORS MAY BE OMITTED.



OUTSIDE FACE OF PARAPET

INSIDE ELEVATION OF PARAPET

NE CORNER SHOWN, SE SIMILAR

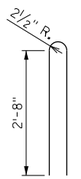


PLAN OF PARAPET

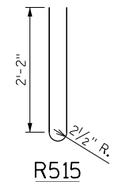
NE CORNER SHOWN, SE SIMILAR

BILL OF BARS

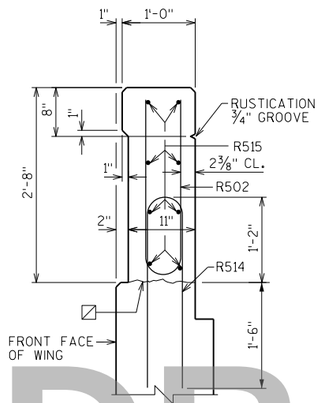
BAR MARK	COAT	NO. REQ'D N ABUT.	NO. REQ'D S ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R514	X	27	26	6'-0"	X		PARAPET VERT.
R515	X	27	26	5'-0"	X		PARAPET VERT.
R516	X	8		16'-8"			PARAPET HORIZ.
R517	X		8	17'-8"			PARAPET HORIZ.



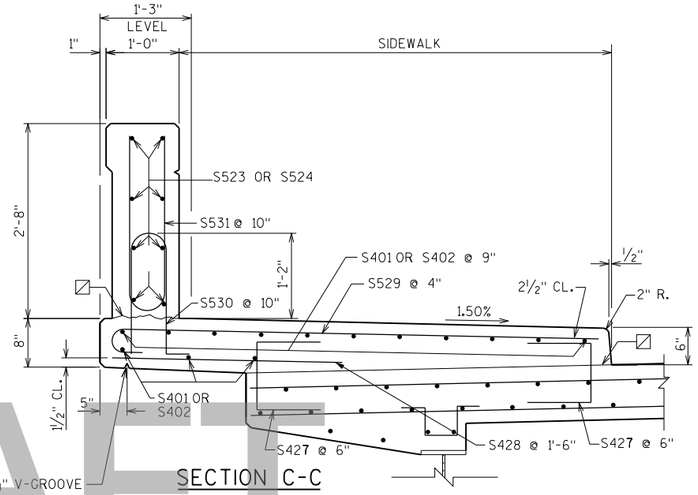
R514



R515



SECTION A-A



SECTION C-C

☒ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

VERTICAL FACE PARAPET "A"

SHEET 14 OF 19

126

FILE= B-40-256_140_VERTPPTA.DGN

SCALE = 1:1

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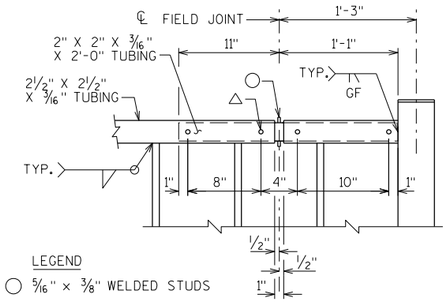
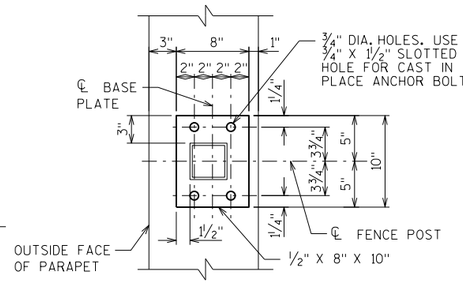


LEGEND

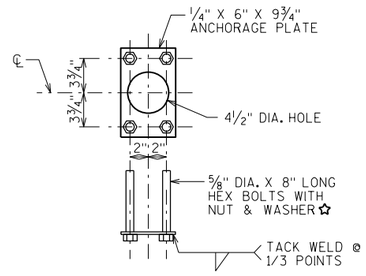
○ 5/16" × 3/8" WELDED STUDS

△ WELD BEAD ON EACH SIDE OF TUBE. GRIND BEADS SO THAT SLEEVE FITS FREELY INSIDE THE 2½" × 2½" TUBE.

RAILING EXPANSION JOINT DETAIL



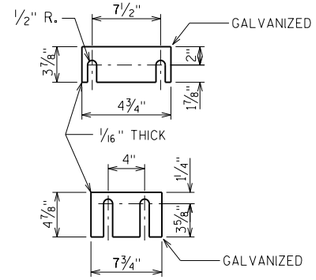
BASE PLATE



ANCHORAGE DETAIL

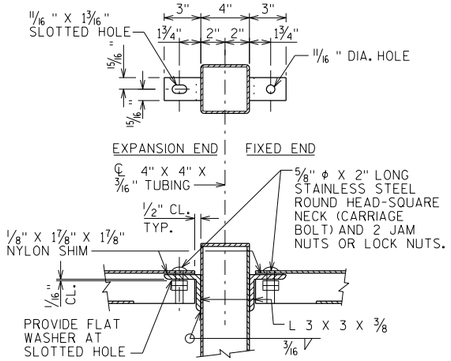
✩ALTERNATIVE ANCHORAGE: ADHESIVE ANCHORS ⅝-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD SPECIFICATIONS.

NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



SHIM PLATE DETAILS

TWO SHIMS OF EACH SIZE REQUIRED PER POST



TOP RAIL CONNECTION FOR FENCE W/ BENT TOP

NOTES

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B. PLATES, ANGLES, BARS AND SHIMS SHALL CONFORM TO ASTM A709, GRADE 36. FENCE FABRIC SHALL CONFORM TO F668, CLASS 2B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.

ALL POST SPACINGS ARE TAKEN HORIZONTAL ALONG CENTERLINE OF RAILING AT BASE OF POST.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN TRANSVERSE DIRECTION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED. ✩

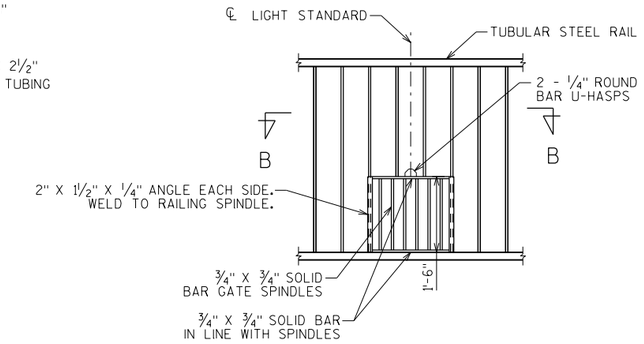
THE BID ITEM SHALL BE "RAILING TUBULAR SCREENING B-40-256" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 POSTS.

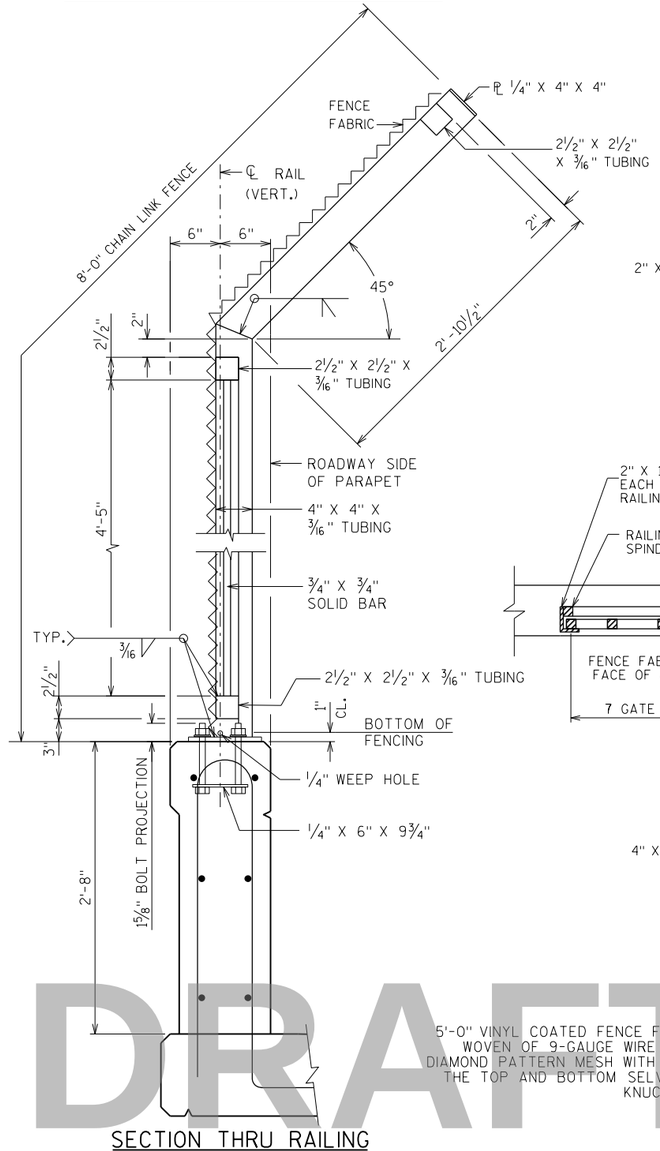
VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

ALL RAILING MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

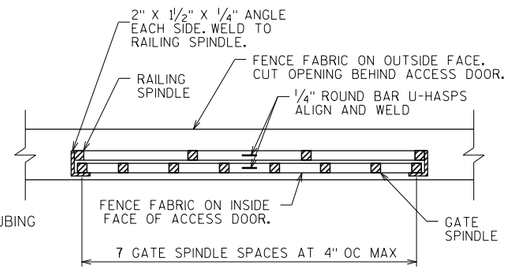
THE END OF THE FABRIC SHALL BE ATTACHED TO THE POST BY MEANS OF A TENSION BAR THREADED THROUGH THE END LOOPS OF THE FABRIC AND SECURED TO THE POST WITH CLAMPS & BOLT. THE FABRIC SHALL BE STRETCHED TO REMOVE ALL SLACK.



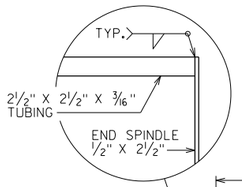
RAILING ACCESS DOOR ELEVATION

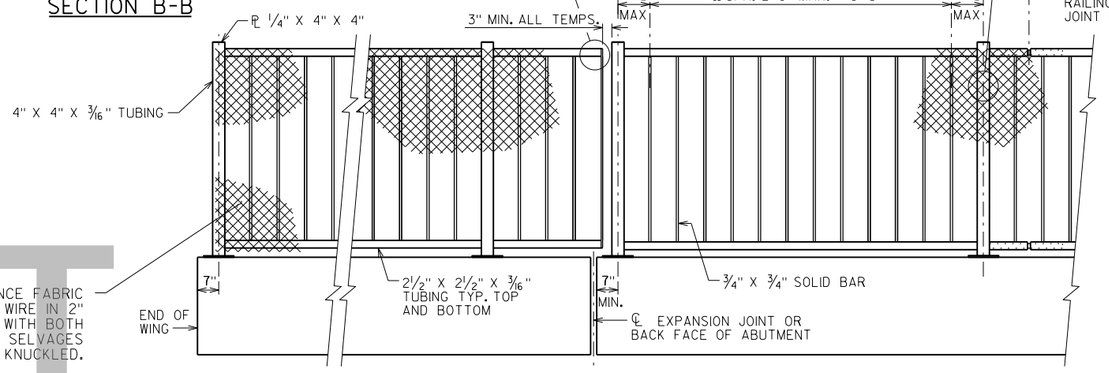


SECTION THRU RAILING



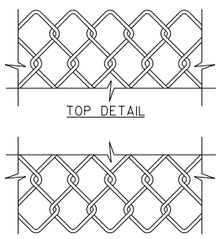
SECTION B-B



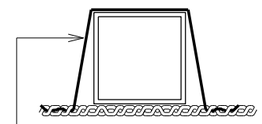


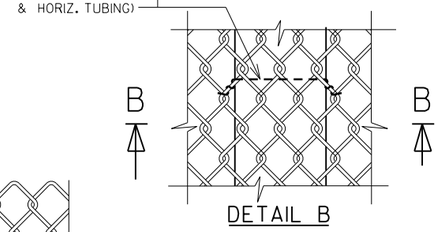
INSIDE ELEVATION OF RAILING

STRAIGHT RAIL SHOWN (BENT RAIL SIMILAR)



FENCE FABRIC





STATE PROJECT NUMBER

1360-13-70

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

TUBULAR STEEL RAILING SCREENING

SHEET 15 OF 19

127

FILE= B-40-256_150_TUBERAIL.DGN
SCALE = 1:1

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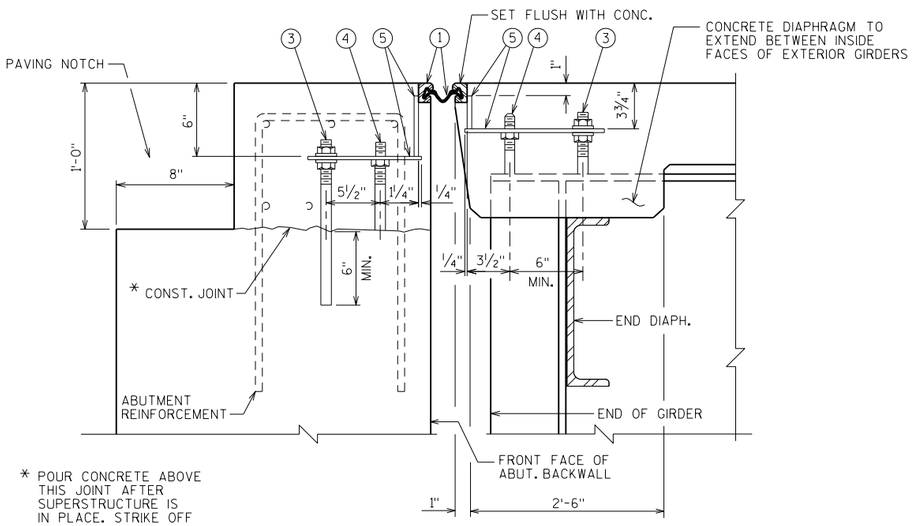
STATE PROJECT NUMBER

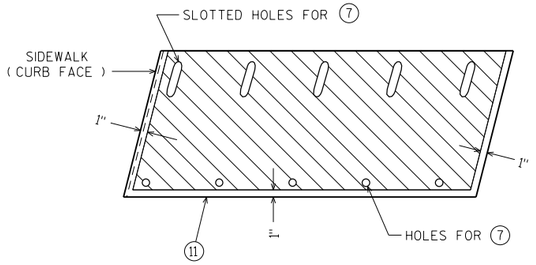
1360-13-70



* POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

SECTION THRU JOINT AT ABUTMENT

NORMAL TO ℄ SUBSTRUCTURE



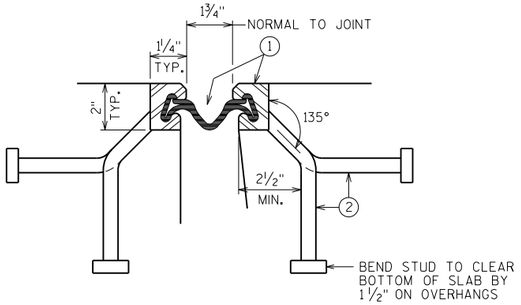
PLAN OF SIDEWALK COVER PLATE WITH SLIP-RESISTANT SURFACE

PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA ONLY (NOT ON CURB FACE).

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

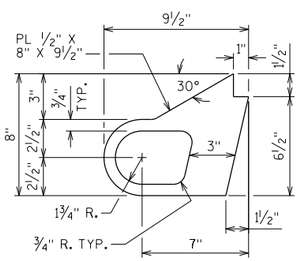
LEGEND

1. NEOPRENE STRIP SEAL (4 - INCH) AND STEEL EXTRUSIONS.
2. STUDS $\frac{5}{8}$"Φ X 6$\frac{3}{8}$" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
2A. $\frac{1}{2}$" THICK ANCHOR PLATE WITH $\frac{5}{8}$"Φ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GIRDERS.
3. $\frac{3}{4}$" Φ THREADED ROD WITH 2 NUTS AND PLATE WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
4. $\frac{3}{4}$"Φ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
5. FABRICATE SUPPORT FROM 3" X $\frac{1}{2}$" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1$\frac{1}{2}$" Φ HOLE FOR NO. 3 & 1" Φ HOLE FOR NO. 4.
6. GALVANIZED PLATE $\frac{3}{8}$" X 10" X 2'-2" LONG WITH HOLES FOR NO. 7.
7. $\frac{3}{4}$"Φ X 1$\frac{1}{2}$" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS $\frac{1}{16}$" BELOW PLATE SURFACE.
8. $\frac{3}{4}$"Φ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
9. $\frac{3}{4}$"Φ X 2$\frac{1}{4}$" GALVANIZED THREADED COUPLING.
10. 1" X 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.
11. SIDEWALK COVER PLATE $\frac{3}{8}$" X 2'-0" X LIMITS SHOWN. BEND DOWN FACE OF SIDEWALK WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

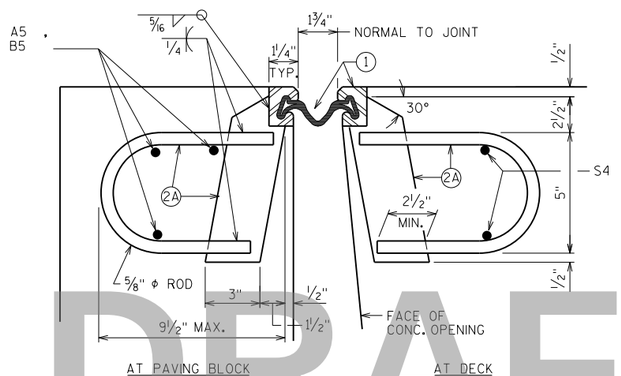


SECTION THRU JOINT

EXTERIOR GIRDER TO EDGE OF DECK AND AT PARAPETS, MEDIANS AND SIDEWALKS

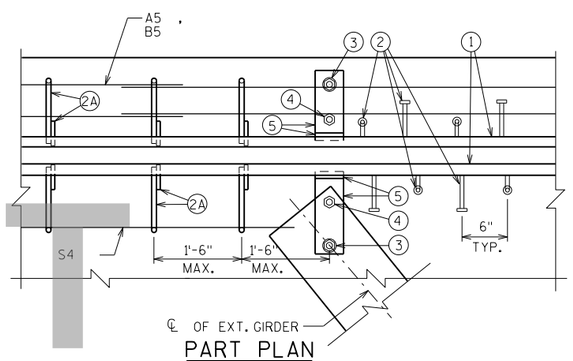


ALTERNATE STRIP SEAL ANCHOR



SECTION THRU JOINT

ROADWAY TRAFFIC AREA BETWEEN EXTERIOR GIRDERS.



PART PLAN

NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS, UNLESS MORE ARE REQUIRED FOR STAGED CONSTRUCTION, HANDLING OR GALVANIZING REQUIREMENTS. IF USED, ANCHOR PLATES SHALL BE PROVIDED 3" FROM EACH SIDE OF THE FIELD SPLICE. DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO SIDEWALK COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

ANCHOR SYSTEM NO. 8 AND NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AND D.

ALL MATERIAL IN THE EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID AT THE UNIT PRICE BID FOR "EXPANSION DEVICE", LF.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

EXPANSION DEVICE

SHEET 16 OF 19

128

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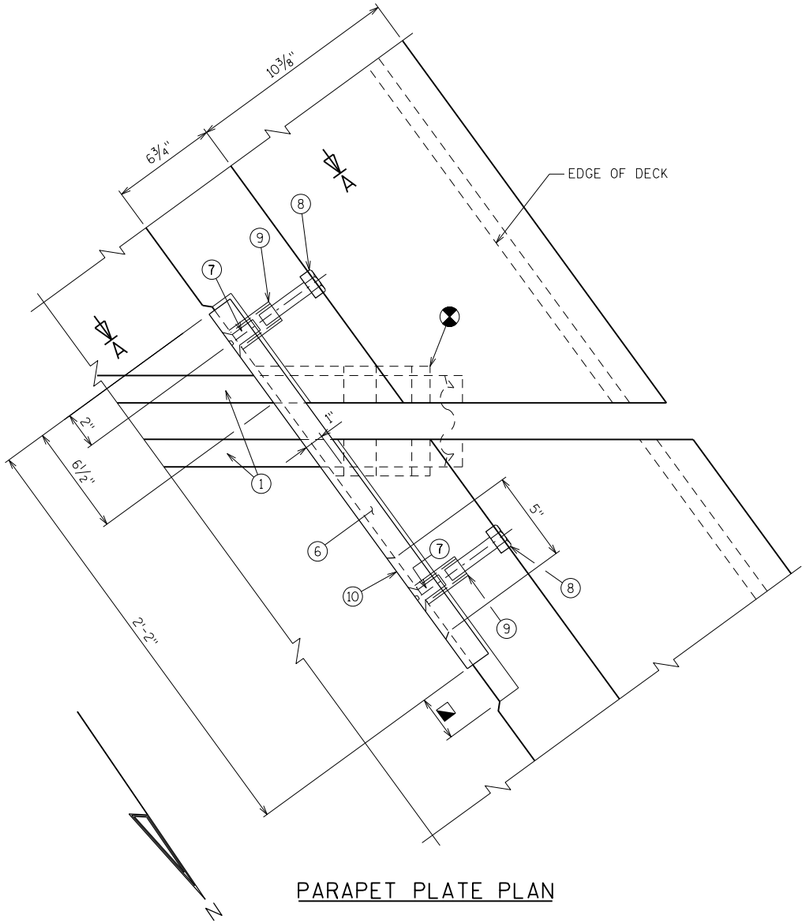
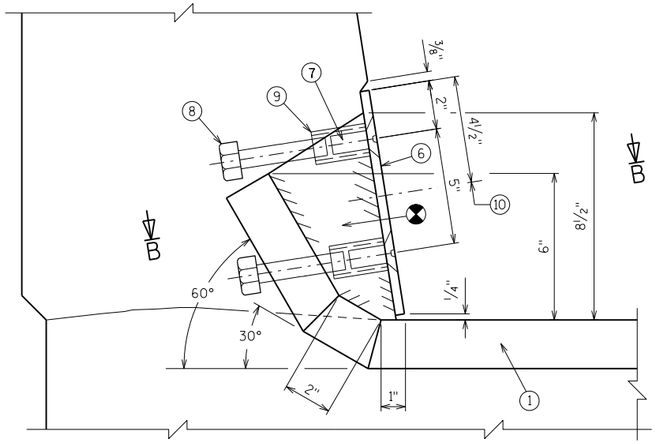
STATE PROJECT NUMBER

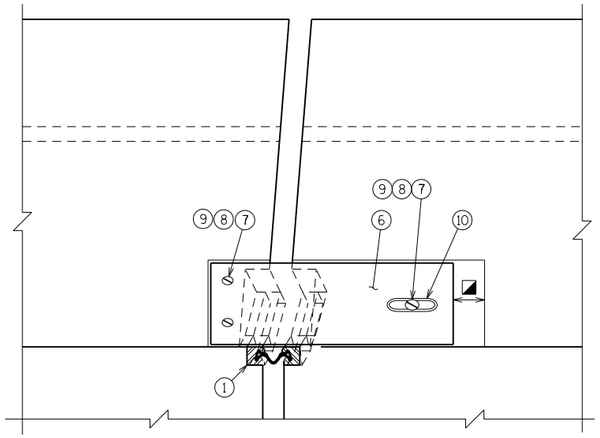
1360-13-70



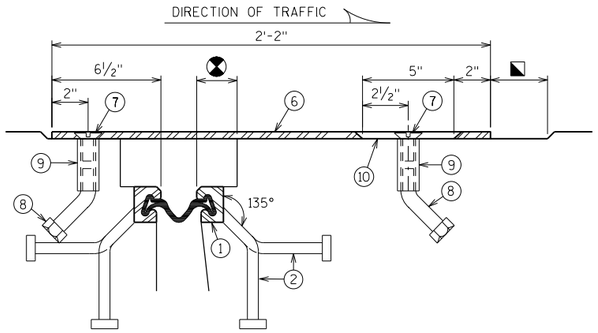
PARAPET PLATE PLAN



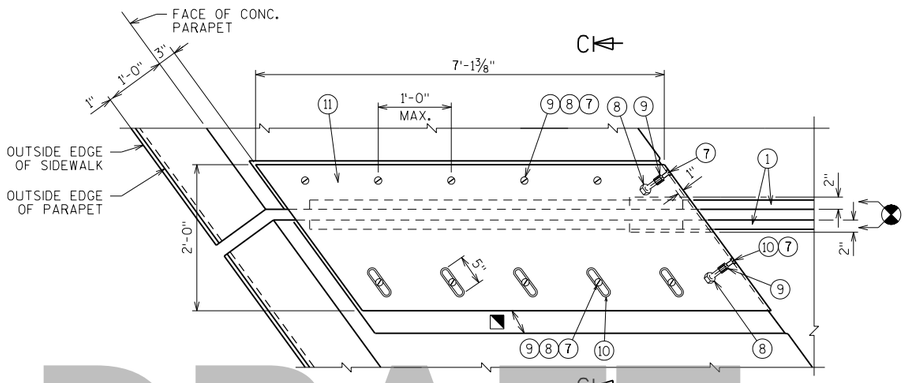
SECTION A-A



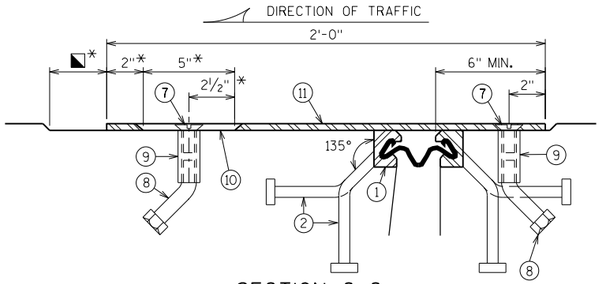
VIEW OF PARAPET PLATE FROM ROADWAY



SECTION B-B

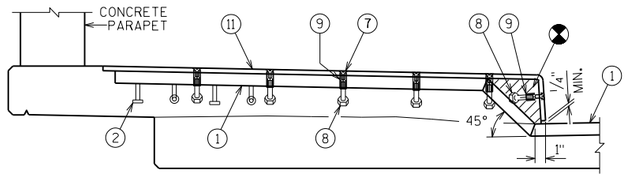


SIDEWALK PLATE PLAN



SECTION C-C

* DIMENSION ALONG DIRECTION OF MOVEMENT



SECTION AT SIDEWALK

⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

◪ JOINT OPENING DIMENSION ALONG SKEW PLUS ½".

DRAFT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

COVER PLATE DETAILS

SHEET 17 OF 19

129

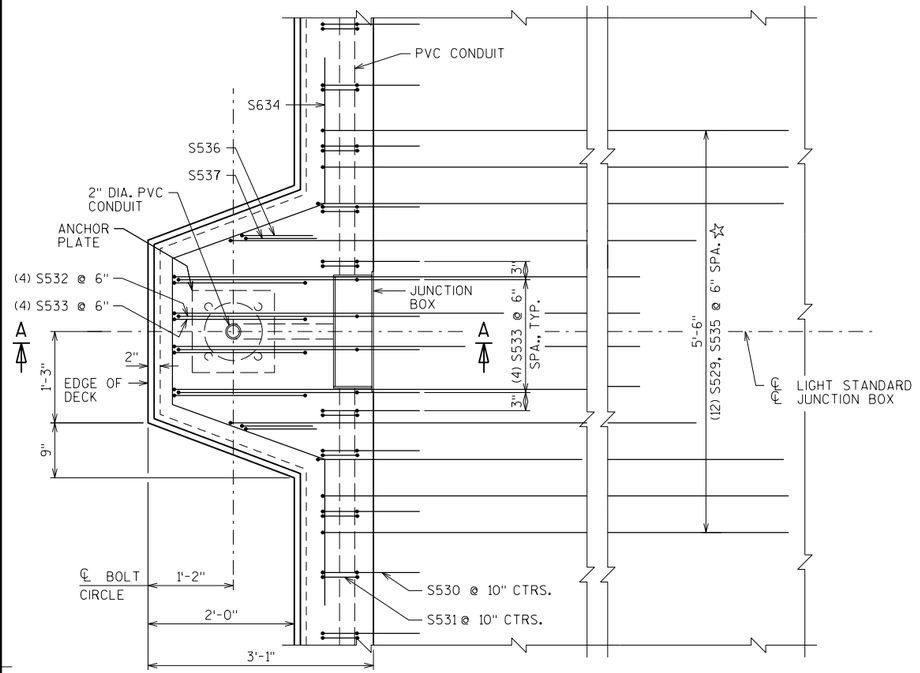
FILE= B-40-256_170_COVERPLATES.DGN
SCALE = 1:1

8

8

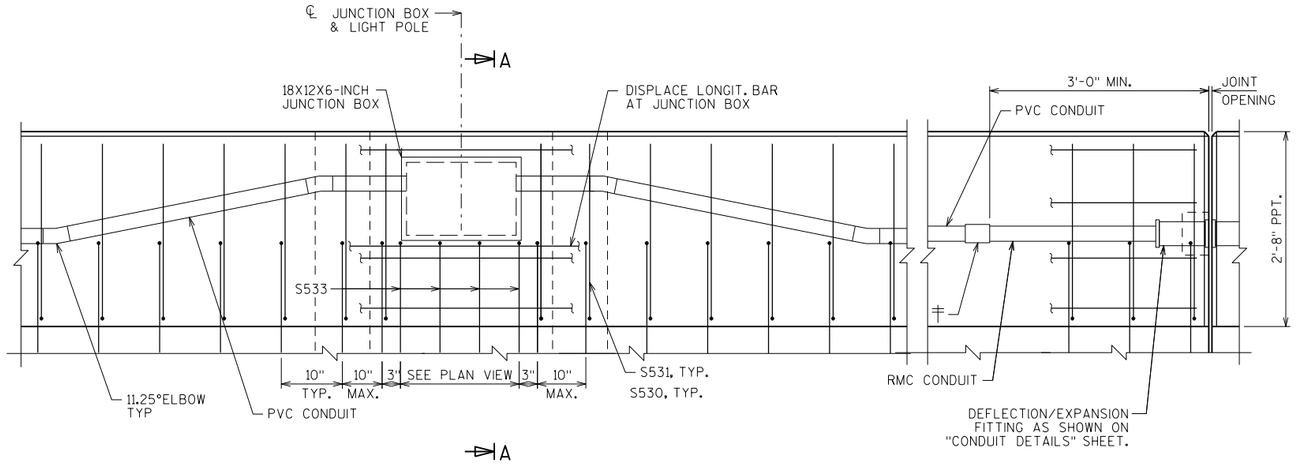
STATE PROJECT NUMBER

1360-13-70



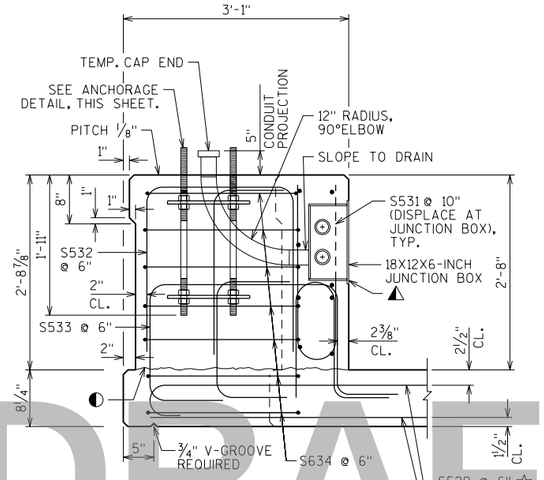
PLAN AT LIGHT STANDARD

(DECK STEEL NOT SHOWN FOR CLARITY)



INSIDE ELEVATION AT JUNCTION BOX

(DECK STEEL NOT SHOWN FOR CLARITY)



SECTION A-A

DRAFT

NOTES

BID ITEM SHALL BE "ANCHOR ASSEMBLIES POLES ON STRUCTURES", EACH

CONDUIT SHALL BE EMBEDDED 2" CLEAR.

USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.

CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.

PROVIDE JUNCTION BOXES FROM THE APPROVED PRODUCTS LIST.

SEE "CONDUIT DETAILS" SHEET FOR ADDITIONAL INFORMATION.

3/8" NYLON PULL WIRE/ROPE IS REQUIRED FOR ALL CONDUIT AND SHALL BE INCIDENTAL TO CONDUIT INSTALLATION

ANCHOR BOLTS FOR ANCHOR ASSEMBLIES MUST BE INSTALLED PERPENDICULAR TO THE HORIZON

THE TOP OF THE LIGHT STANDARD SHALL HAVE A 1/8" PITCH FORM THE OUTSIDE FACE OF THE PARAPET TO THE OUTSIDE FACE OF THE LIGHT STANDARD.

LEGEND

◐ CONSTRUCTION JOINT, STRIKE OFF AS SHOWN.

◭ CUT OUT ± 1" OF GASKET AT BOTTOM OF JUNCTION BOX COVER TO ALLOW FOR DRAINAGE.

▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE EDGE OF JUNCTION BOX.

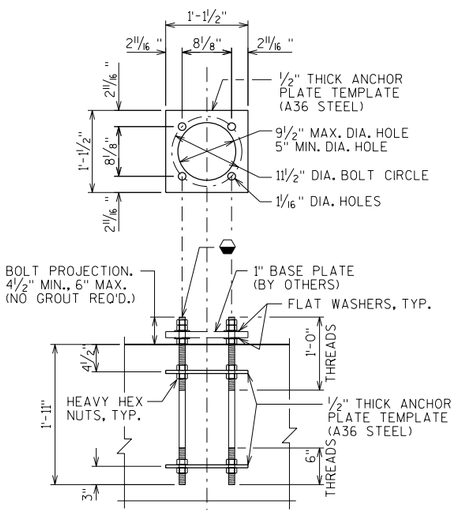
⫩ NONMETALLIC CONDUIT TO METALLIC CONDUIT ADAPTER FITTING (UL OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED).

PVC = POLYVINYL CHLORIDE (RIGID NONMETALLIC) CONDUIT

RMC = RIGID METALLIC CONDUIT

☆ THESE BARS ARE IN ADDITION TO STANDARD TRANSVERSE BARS IN SIDEWALK.

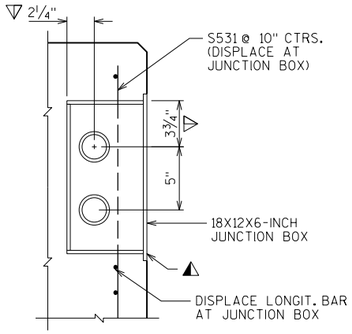
◒ 1" DIA. ANCHOR RODS ASTM F1554 GR 55, HEAVY HEX NUTS ASTM A563, AND WASHERS ASTM F436. ANCHOR ASSEMBLIES SHALL BE GALVANIZED PER SECTION 531 OF THE STANDARD SPECIFICATION. PROVIDE (2) WASHERS AND (7) NUTS PER ANCHOR ROD.



ANCHOR ROD ASSEMBLY DETAIL

(REQ'D.)

(4) - ANCHOR RODS REQUIRED PER ASSEMBLY



JUNCTION BOX DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

LIGHT SUPPORT DETAILS

SHEET 18 OF 19

130

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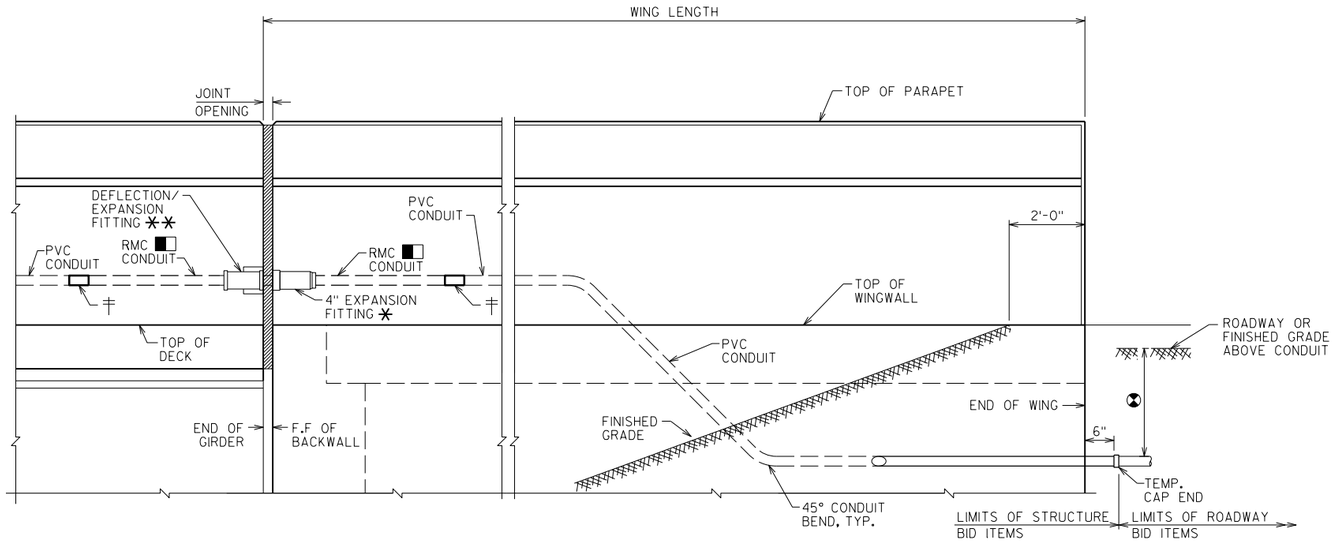
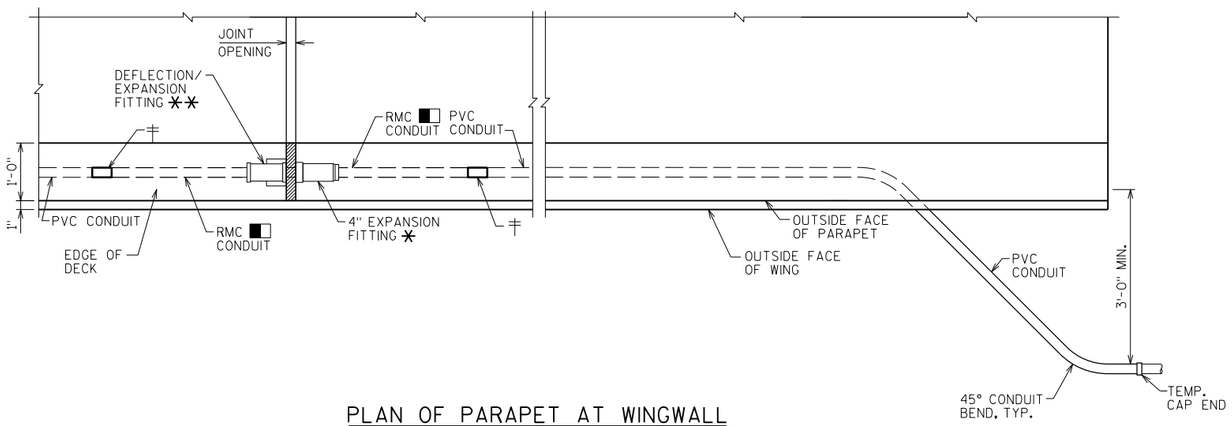
FILE= B-40-256.180_LIGHTSTD.DGN
SCALE = 1:1

STATE PROJECT NUMBER

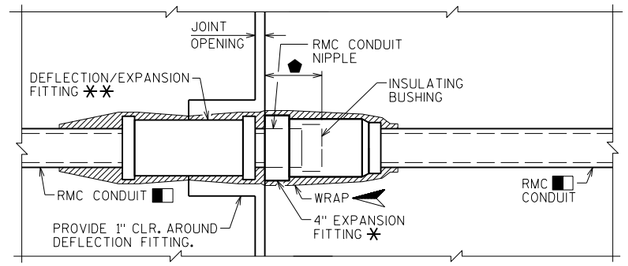
1360-13-70



OUTSIDE ELEVATION OF PARAPET AT WINGWALL



PLAN OF PARAPET AT WINGWALL



DEFLECTION/EXPANSION AND 4" EXPANSION FITTING

THIS DETAIL ACCOMMODATES A MAXIMUM OF 4" TOTAL MOVEMENT AND UP TO 30 DEGREES OF ANGULAR MISALIGNMENT IN ANY DIRECTION. BOND JUMPER NOT SHOWN FOR CLARITY

LEGEND

- ■□ USE 2" DIA. RIGID METALLIC (RMC) CONDUIT AT FITTINGS. PROVIDE RMC FOR 3'-0" MIN. ON EACH SIDE OF JOINT OPENINGS UNLESS NOTED OTHERWISE.
- ┼ NONMETALLIC CONDUIT TO METALLIC CONDUIT ADAPTER FITTING (UL OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED).
- ◥ SPONGE RUBBER WRAP TO BE AASHTO M153, TYPE 1 OR EQUIVALENT - 1/4" MINIMUM THICKNESS. PROVIDE WRAP FOR THE ENTIRE LENGTH OF THE FITTING OR AS SHOWN. SPONGE RUBBER WRAP INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".
- ⬟ POSITION MOVABLE END OF CONDUIT INSIDE EXPANSION FITTING, SUCH THAT IT WILL HAVE THE SAME ALLOWANCE FOR MOVEMENT (EXPANSION/CONTRACTION) AS THE EXPANSION DEVICE SET IN PLACE IN THE DECK BELOW IT. TAKE CARE TO INSTALL EXPANSION FITTING AND CONDUIT EXACTLY PARALLEL TO BRIDGE MOVEMENT.
- ⊠ 2'-0" MIN. CONDUIT COVER UNDER ROADWAYS, 1'-6" OTHERWISE. CONDUIT COVER SHOULD NOT EXCEED 3'-0".
- ✳ EXPANSION FITTING REQUIREMENTS (IF USED):
  - 4" TOTAL MOVEMENT WITH BONDING JUMPER
  - 8" TOTAL MOVEMENT WITH BONDING JUMPER
- ✳✳ DEFLECTION/EXPANSION FITTING REQUIREMENTS (IF USED):
  - UP TO 3/4" CONDUIT CONTRACTION OR EXPANSION AND UP TO 30° OF ANGULAR MISALIGNMENT IN ANY DIRECTION WITH BONDING JUMPER

NOTES

CONDUIT SHALL BE EMBEDDED 2" CLEAR.

USE 2" DIA. RIGID NONMETALLIC CONDUIT (PVC) UNLESS NOTED OTHERWISE.

CONDUIT FITTINGS, CONDUIT BENDS, AND ADAPTER FITTINGS INCIDENTAL TO CONDUIT WORK.

CONDUIT BENDS SHALL CONFORM TO THE NATIONAL ELECTRIC CODE.

3/8" NYLON PULL WIRE/ROPE IS REQUIRED FOR ALL CONDUIT AND SHALL BE INCIDENTAL TO CONDUIT INSTALLATION.

DRAFT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-40-256

DRAWN BY JAP | PLANS CK'D. WJZ

CONDUIT DETAILS

SHEET 19 OF 19

131

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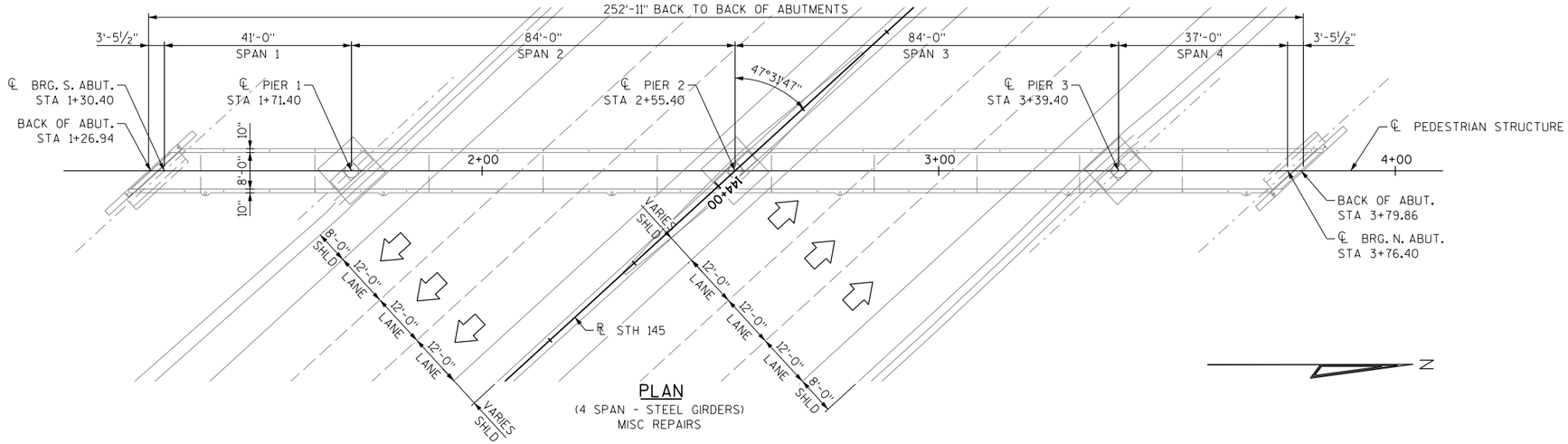
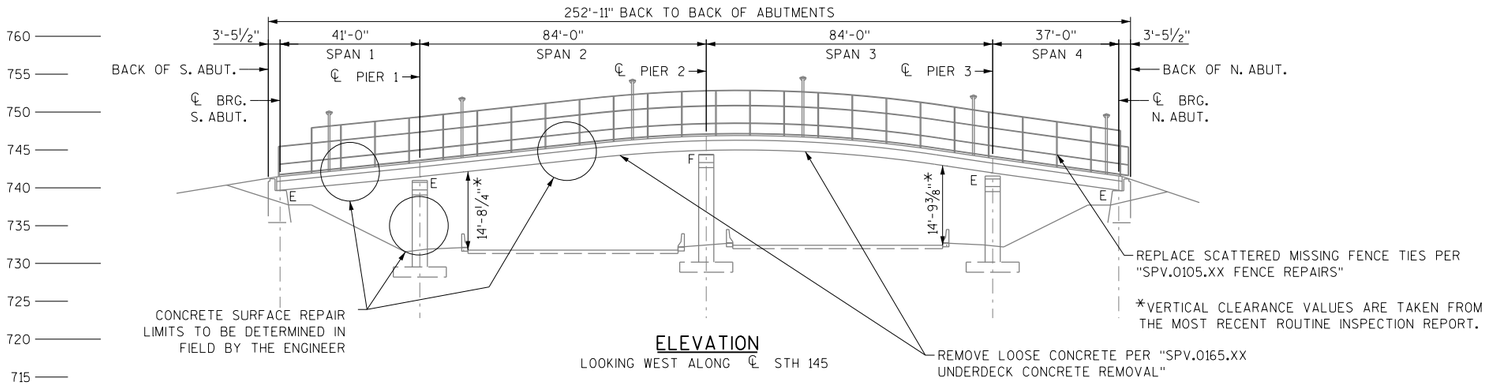
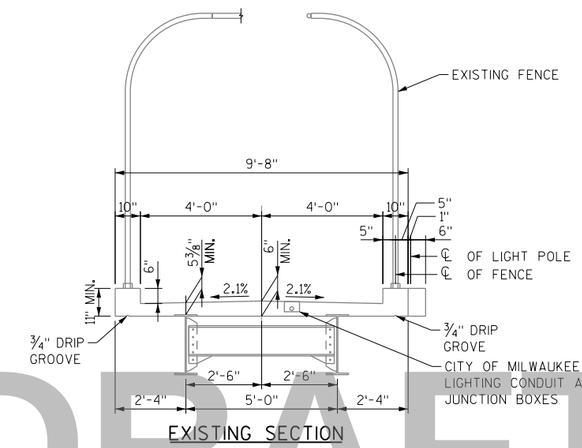
STATE PROJECT NUMBER
1360-13-70



PLAN
(4 SPAN - STEEL GIRDERS)
MISC REPAIRS



ELEVATION
LOOKING WEST ALONG ℄ STH 145



EXISTING SECTION
(LOOKING NORTH)

GENERAL NOTES:

1. DRAWINGS SHALL NOT BE SCALED.
2. EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
3. BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
5. ALL STATIONS AND ELEVATIONS ARE IN FEET.
6. ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT.
7. SPECIFIC LOCATIONS OF CONCRETE SURFACE REPAIR AT ABUTMENTS, PIERS, AND ON THE WEARING SURFACE ARE TO BE DETERMINED BY THE ENGINEER.
8. SPECIFIC LOCATIONS OF CRACK SEALING, FENCE REPAIRS, AND UNDERDECK CONCRETE REMOVAL ARE TO BE DETERMINED BY THE ENGINEER.
9. CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS IN WEARING SURFACE WITH A PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.
10. PROTECTIVE SURFACE TREATMENT RESEAL SHALL BE APPLIED TO THE DECK. SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "PROTECTIVE SURFACE TREATMENT RESEAL".

EXISTING STRUCTURE

THE EXISTING BRIDGE (B-40-297) IS A 252'-11" LONG, 9'-8" WIDE 4 SPAN STEEL GIRDER PEDESTRIAN BRIDGE SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. THE STRUCTURE BEGINS AT STA 1+26.94 AND ENDS AT STA 3+79.86. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REVIEW AT WISDOT SE REGION OFFICE, 141 NW BARSTOW ST. WAUKESHA, WI OR THROUGH THE WISDOT STRUCTURES WEBSITE.

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. ~~DETAILS~~

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK, PE
(608) 261-0261

CONSULTANT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST, SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

TOTAL ESTIMATE OF QUANTITIES

	BID ITEMS	UNIT	S ABUT	PIER 1	PIER 2	PIER 3	N ABUT	SUPER	TOTAL
502.0717.S	CRACK SEALING EPOXY	LF	-	-	-	-	-	-	-
502.2000	COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC (SIZE)	LF	-	-	-	-	-	-	-
502.3205	PROTECTIVE SURFACE TREATMENT RESEAL	SY	-	-	-	-	-	-	-
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	-	-	-	-	-
509.0302	PREPARATION DEKS TYPE 2	SY	-	-	-	-	-	-	-
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	-	-	-	-	-	-	-
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	-	-	-	-	-
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	-	-	-	-	-
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	-	-	-	-	-	-	-
SPV.0060.001	CLEANING, PAINTING, AND LUBRICATING BEARINGS	EACH	-	-	-	-	-	-	-
SPV.0105.002	FENCE REPAIRS	EACH	-	-	-	-	-	-	-
SPV.0165.002	REMOVING LOOSE CONCRETE	SF	-	-	-	-	-	-	-

DRAFT

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-297

PEDESTRIAN BRIDGE OVER STH 145

COUNTY	MILWAUKEE	~~TOWN~~/CITY/~~VILLAGE~~	MILWAUKEE
DESIGN SPEC.	REHABILITATION N/A		
DESIGNED BY	JAP	DESIGN CK'D.	WJZ
DRAWN BY	MRL	PLANS CK'D.	WJZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 2
132

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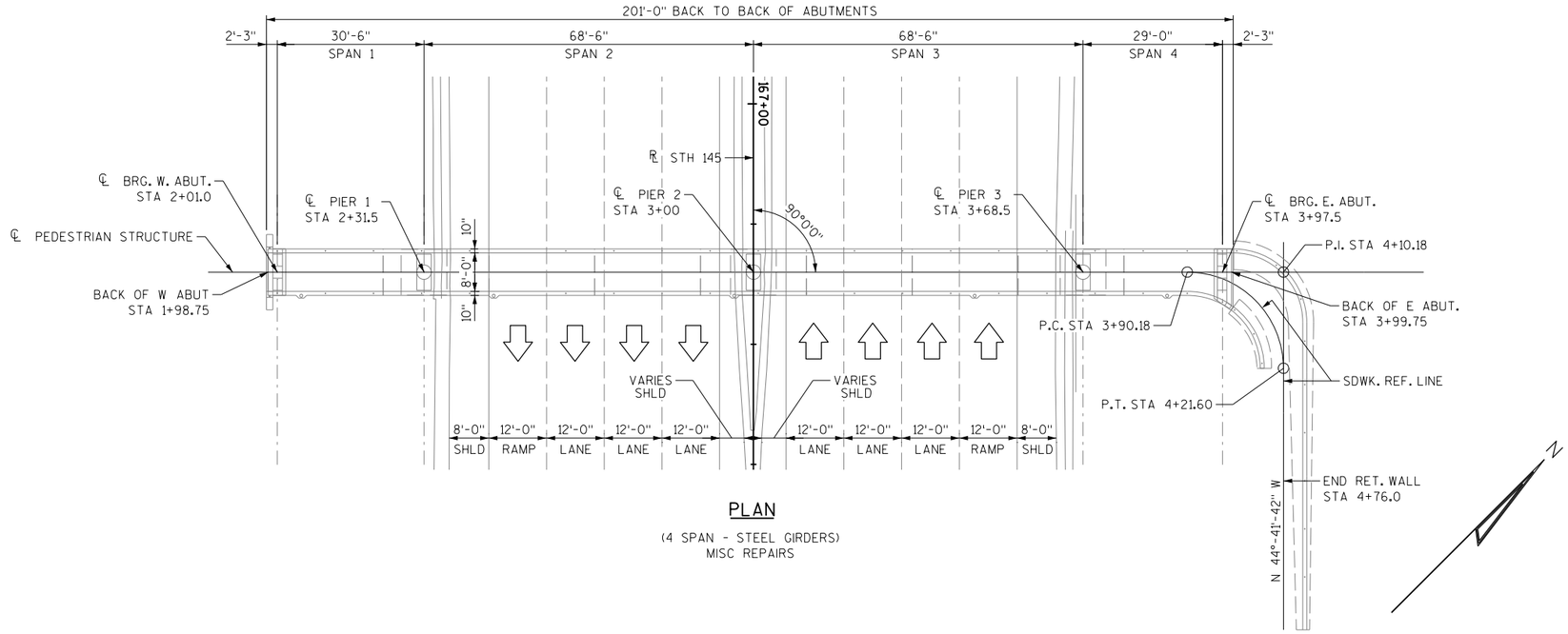
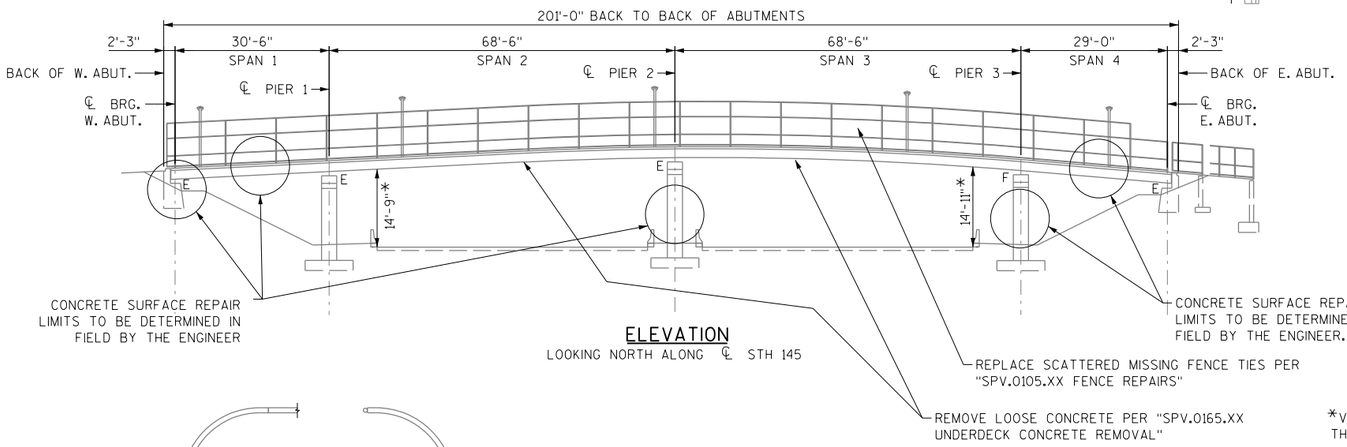


PLAN

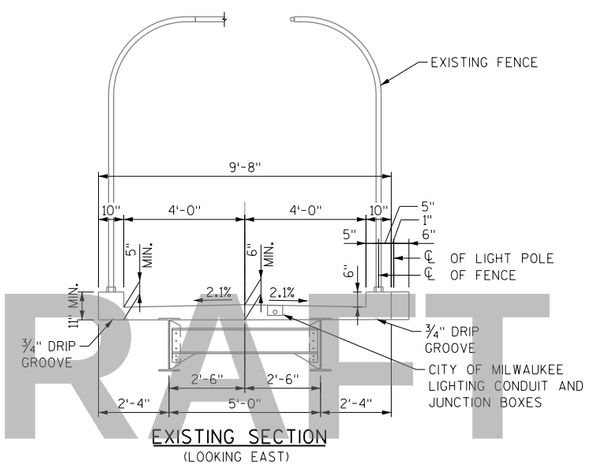
(4 SPAN - STEEL GIRDERS)
MISC REPAIRS



ELEVATION

LOOKING NORTH ALONG ℄ STH 145

*VERTICAL CLEARANCE VALUES ARE TAKEN FROM THE MOST RECENT ROUTINE INSPECTION REPORT.



EXISTING SECTION

(LOOKING EAST)

DRAFT

TOTAL ESTIMATE OF QUANTITIES

BID NO.	BID ITEMS	UNIT	W ABUT	PIER 1	PIER 2	PIER 3	E ABUT	SUPER	TOTAL
502.0717.S	CRACK SEALING EPOXY	LF	-	-	-	-	-	-	-
502.2000	COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC (SIZE)	LF	-	-	-	-	-	-	-
502.3205	PROTECTIVE SURFACE TREATMENT RESEAL	SY	-	-	-	-	-	-	-
506.0605	STRUCTURAL STEEL HS	LB	-	-	-	-	-	-	-
509.0301	PREPARATION DECKS TYPE 1	SY	-	-	-	-	-	-	-
509.0302	PREPARATION DEKS TYPE 2	SY	-	-	-	-	-	-	-
509.0310.S	SAWING PAVEMENT DECK PREPARATION AREAS	LF	-	-	-	-	-	-	-
509.1500	CONCRETE SURFACE REPAIR	SF	-	-	-	-	-	-	-
509.2000	FULL-DEPTH DECK REPAIR	SY	-	-	-	-	-	-	-
509.2100.S	CONCRETE MASONRY DECK REPAIR	CY	-	-	-	-	-	-	-
SPV.0060.XX	CLEANING, PAINTING, AND LUBRICATING BEARINGS	EACH	-	-	-	-	-	-	-
SPV.0105.XX	FENCE REPAIRS	LS	-	-	-	-	-	-	-
SPV.0165.XX	UNDERDECK CONCRETE REMOVAL	SF	-	-	-	-	-	-	-

STATE PROJECT NUMBER

1360-13-70

GENERAL NOTES:

1. DRAWINGS SHALL NOT BE SCALED.
2. EXISTING STRUCTURE DIMENSIONS ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
3. BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
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6. ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT.
7. SPECIFIC LOCATIONS OF CONCRETE SURFACE REPAIR AT ABUTMENTS, PIERS, AND ON THE WEARING SURFACE ARE TO BE DETERMINED BY THE ENGINEER.
8. SPECIFIC LOCATIONS OF CONCRETE SURFACE REPAIR AT PIER 1 AND THE WEARING SURFACE ARE TO BE DETERMINED BY THE ENGINEER.
9. CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS IN WEARING SURFACE WITH A PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.
10. PROTECTIVE SURFACE TREATMENT RESEAL SHALL BE APPLIED TO THE DECK. SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "PROTECTIVE SURFACE TREATMENT RESEAL".

EXISTING STRUCTURE

THE EXISTING BRIDGE (B-40-298) IS A 201'-0" LONG, 9'-8" WIDE 4 SPAN STEEL GIRDER PEDESTRIAN BRIDGE SUPPORTED ON REINFORCED CONCRETE PIERS AND ABUTMENTS. THE STRUCTURE BEGINS AT STA 1+98.75 AND ENDS AT STA 3+99.75. PLANS OF THE EXISTING BRIDGE ARE AVAILABLE FOR REVIEW AT WISDOT SE REGION OFFICE, 141 NW BARSTOW ST. WAUKESHA, WI OR THROUGH THE WISDOT STRUCTURES WEBSITE.

LIST OF DRAWINGS:

1. GENERAL PLAN & ELEVATION
2. ~~DETAILS~~

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK, PE
(608) 261-0261

CONSULTANT:
WILLIAM J. ZIPPEL, PE, SE
ALFRED BENESCH & CO
1300 W CANAL ST. SUITE 150
MILWAUKEE, WI 53233
(414) 308-1321

NO.	DATE	REVISION	BY

benesch
Alfred Benesch & Company
1300 West Canal Street, Suite 150
Milwaukee, Wisconsin 53233
414-308-1310 Job No. 20288.00

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-40-298

PEDESTRIAN BRIDGE OVER STH 145

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
MILWAUKEE	MILWAUKEE

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	JAP	DESIGN CK'D.	WJZ	DRAWN BY	MRL	PLANS CK'D.	WJZ

GENERAL PLAN & ELEVATION

SHEET 1 OF 2

133

FILE= B-40-298_10_GP&E.DGN
SCALE = 1:30

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PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: CROSS SECTIONS	SHEET 134	E

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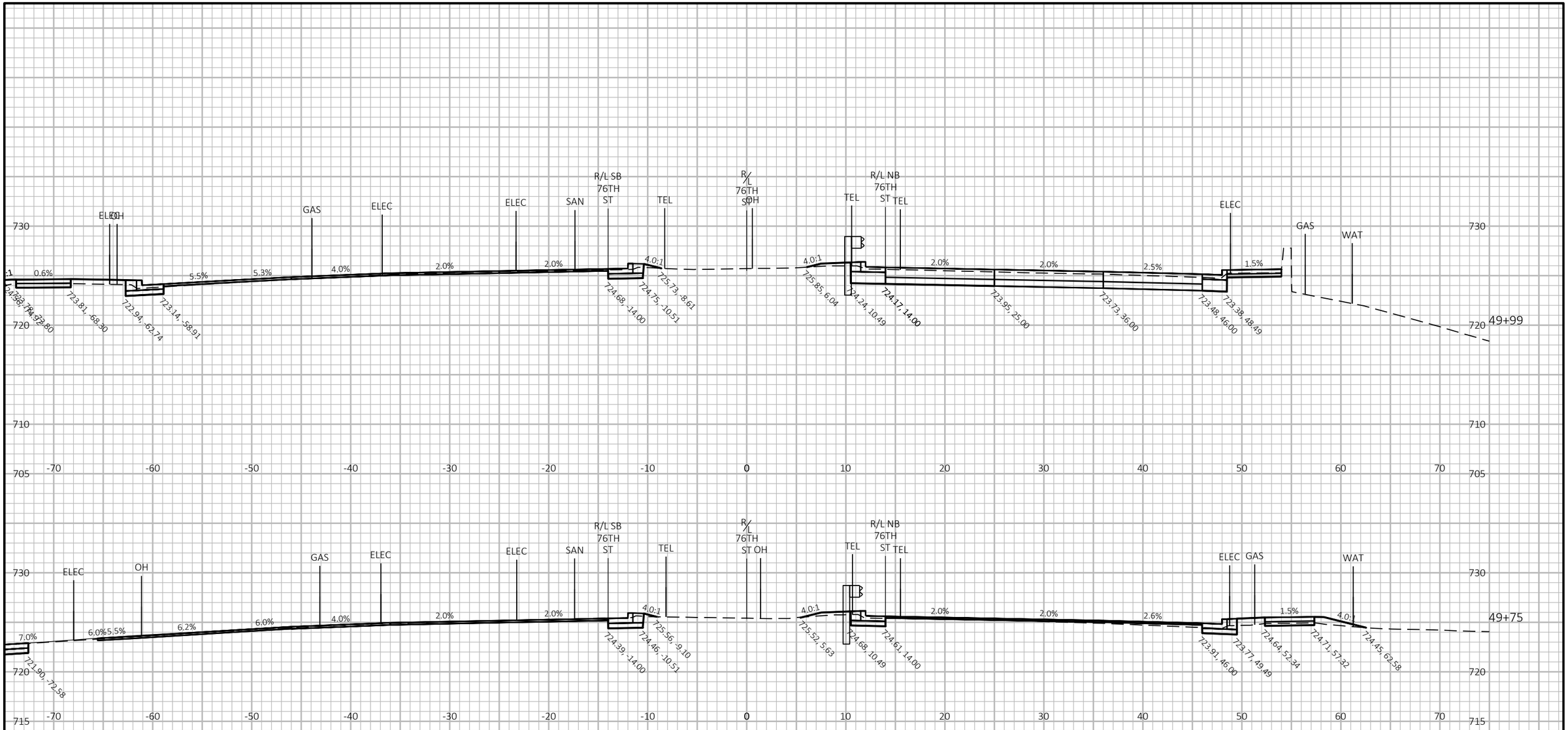
LAYOUT NAME - 01

PLOT DATE : 4/13/2022 12:35 PM PLOT BY : PAYNE, GREGORY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: CROSS SECTIONS	SHEET 135	E

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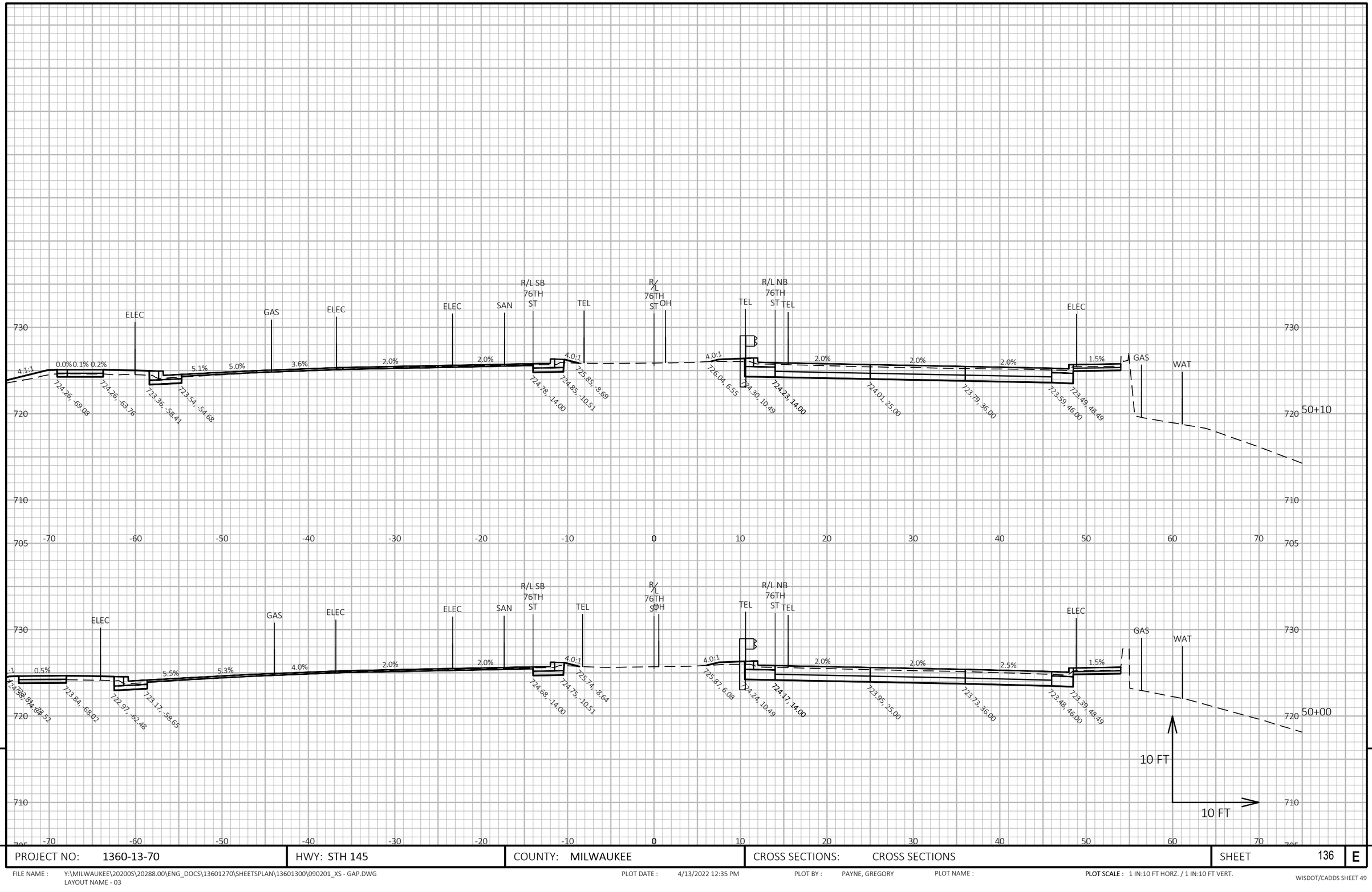
LAYOUT NAME - 02

PLOT DATE : 4/13/2022 12:35 PM PLOT BY : PAYNE, GREGORY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: CROSS SECTIONS	SHEET 136	E

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LAYOUT NAME - 03

PLOT DATE : 4/13/2022 12:35 PM

PLOT BY : PAYNE, GREGORY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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9

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: CROSS SECTIONS	SHEET 137	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS - GAP.DWG
LAYOUT NAME - 04

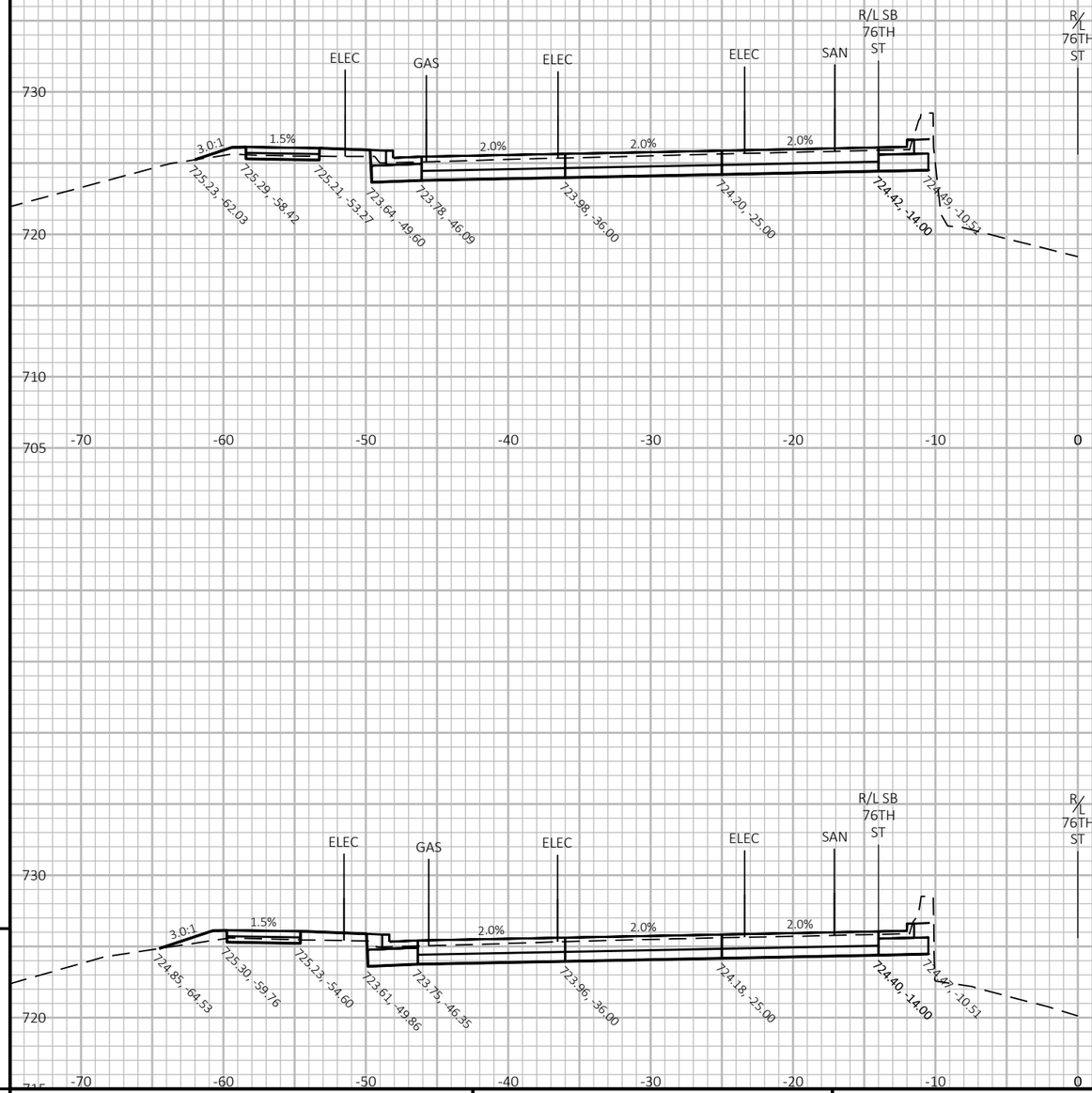
PLOT DATE : 4/13/2022 12:35 PM

PLOT BY : PAYNE, GREGORY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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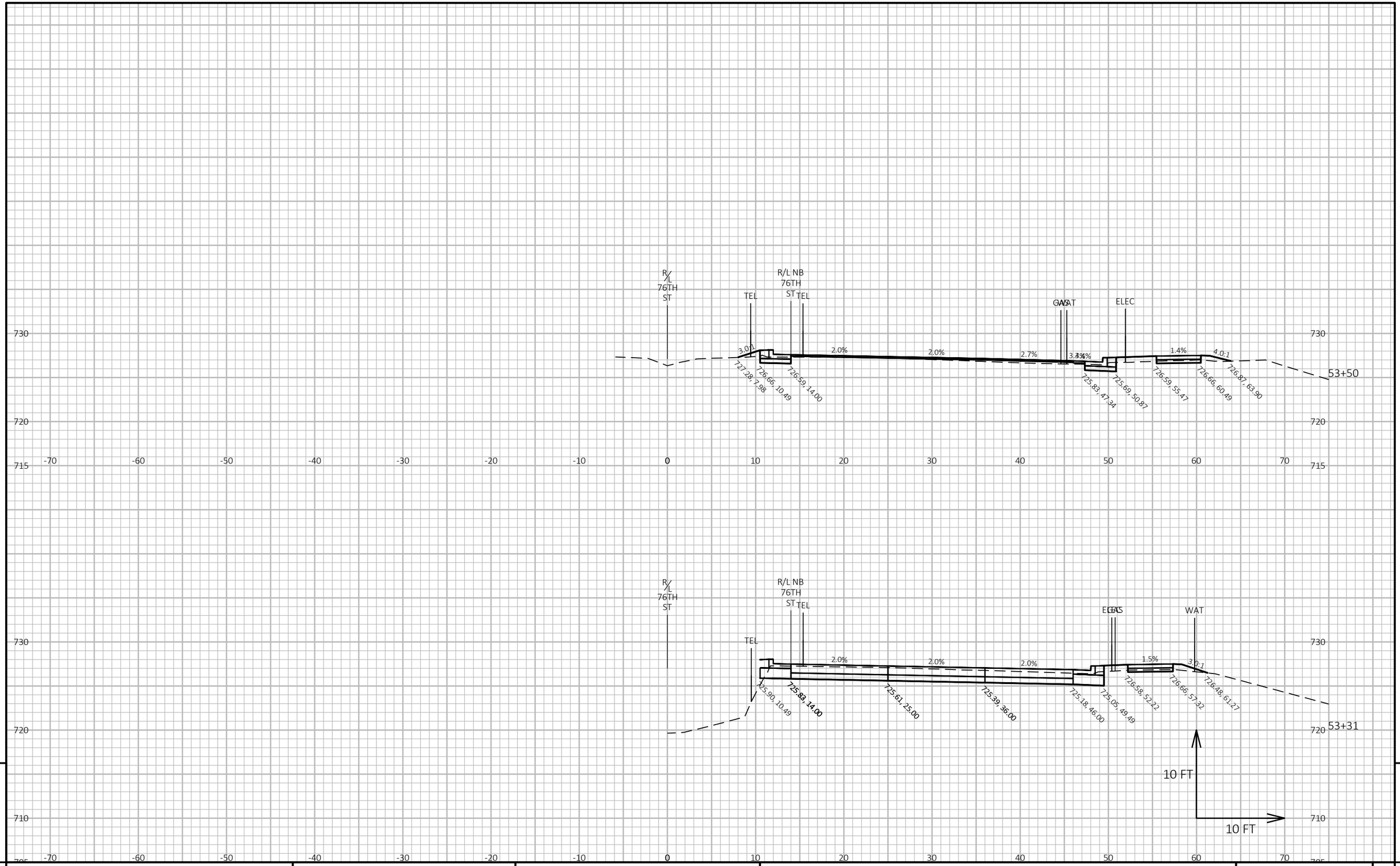
9

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: CROSS SECTIONS	SHEET 138	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS - GAP.DWG
LAYOUT NAME - 05

PLOT DATE : 4/13/2022 12:35 PM PLOT BY : PAYNE, GREGORY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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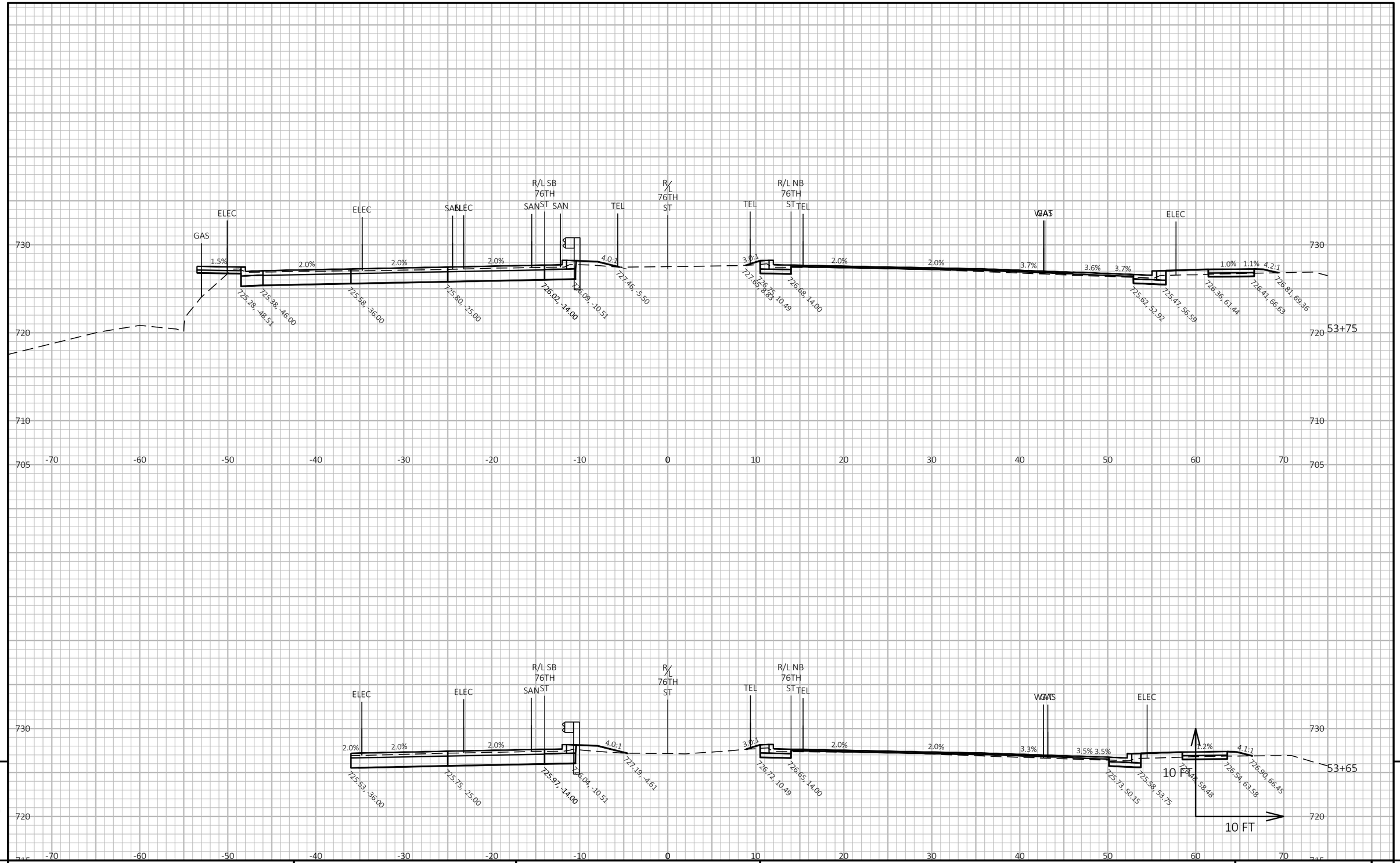
PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: CROSS SECTIONS	SHEET 139	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS - GAP.DWG
LAYOUT NAME - 06

PLOT DATE : 4/13/2022 12:35 PM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: CROSS SECTIONS	SHEET 140	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS - GAP.DWG
LAYOUT NAME - 07

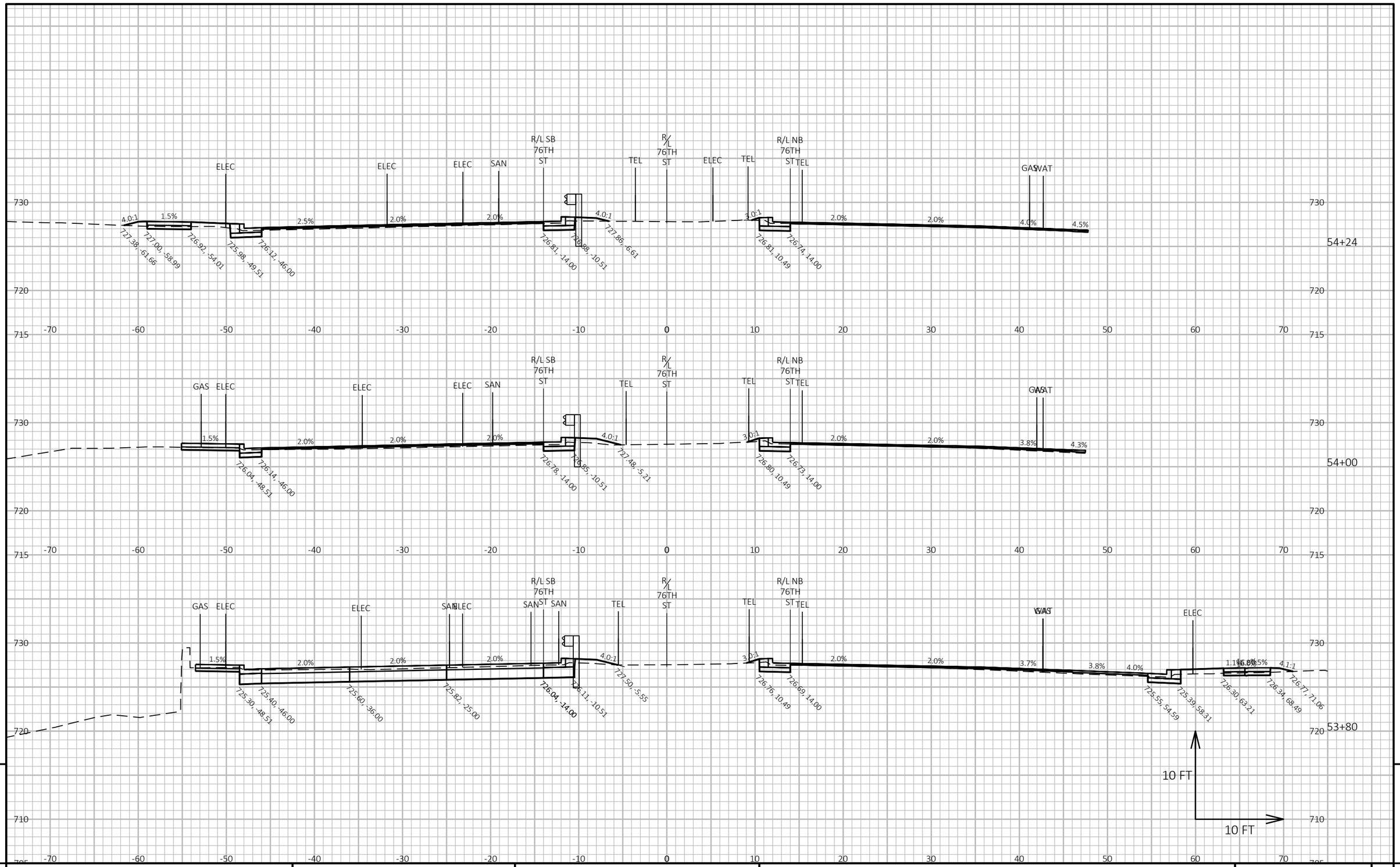
PLOT DATE : 4/13/2022 12:36 PM

PLOT BY : PAYNE, GREGORY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: CROSS SECTIONS	SHEET 141	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS - GAP.DWG
LAYOUT NAME - 08

PLOT DATE : 4/13/2022 12:36 PM

PLOT BY : PAYNE, GREGORY

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

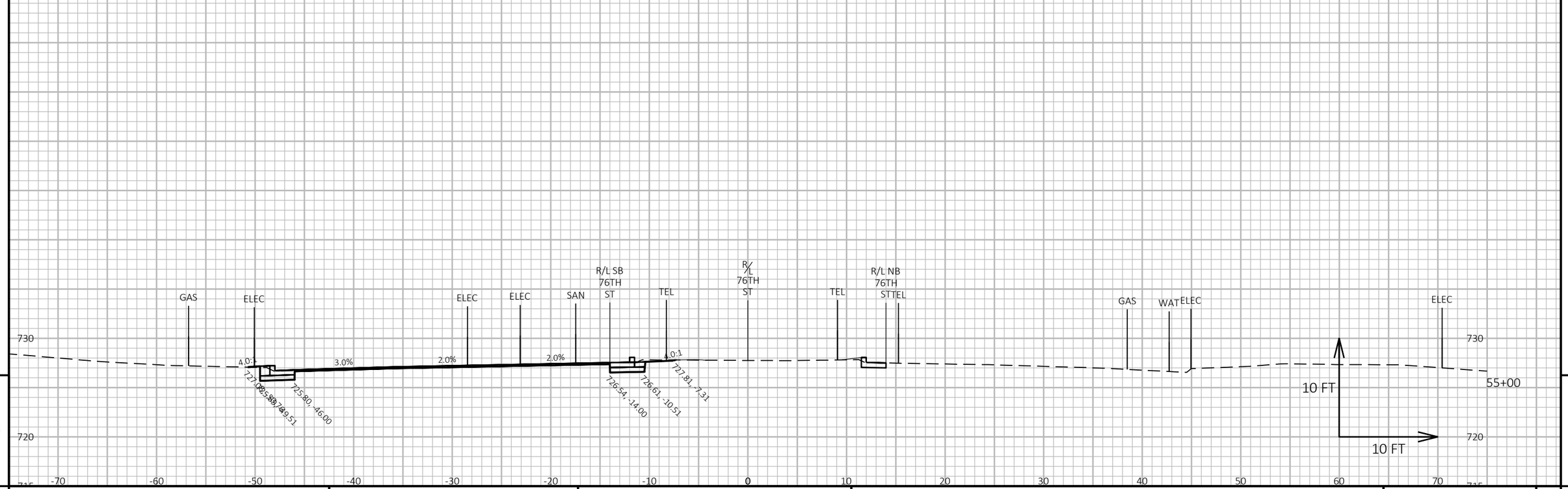
WISDOT/CADDS SHEET 49

PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: CROSS SECTIONS	SHEET 142	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS - GAP.DWG
LAYOUT NAME - 09

PLOT DATE : 4/13/2022 12:36 PM PLOT BY : PAYNE, GREGORY PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1360-13-70	HWY: STH 145	COUNTY: MILWAUKEE	CROSS SECTIONS: CROSS SECTIONS	SHEET 143	E

FILE NAME : Y:\MILWAUKEE\20200S\20288.00\ENG_DOCS\13601270\SHEETSPLAN\13601300\090201_XS - GAP.DWG
LAYOUT NAME - 10

PLOT DATE : 4/13/2022 12:36 PM PLOT BY : PAYNE, GREGORY PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49